

STIC Database Tracking Number: 342193

**To: Robert Sorey**  
**Location: KNX 5A28**  
**Art Unit: 3626**  
**Date: 09/09/2010**  
**Case Serial Number: 09/851745**

**From: Eileen Patton**  
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## Search Notes

Dear Examiner Sorey:

Please find attached the results of your search for the above-referenced case. The search was conducted in Dialog, ProQuest, EBSCOhost and the internet. A full template search was conducted.

I have listed *potential* references of interest in the first part of the search results. However, please be sure to scan through the entire report. There may be additional references that you might find useful.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!

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*\*EIC-Searcher identified “potential references of interest” are selected based upon their apparent relevance to the terms/concepts provided in the examiner’s search request.*

## I. Potential References of Interest

### A. Dialog

20/3,K/14 (Item 14 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0012326861 *Drawing available*

WPI Acc no: 2002-268718/200231

XRPX Acc No: N2002-209165

**Medical image management system for central management of storage and secure transmission of electronic records containing images between remotely located facilities**

Patent Assignee: D'AMICO K L (DAMI-I); PRASAD V G R (PRAS-I); RADVAULT INC (RADV-N);

ROTHSCHILD P A (ROTH-I); WEIR W M M (WEIR-I)

Inventor: D'AMICO K L; PRASAD V G R; ROTHSCHILD P A; WEIR W M M

Patent Family ( 9 patents, 93 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001099407	A1	20011227	WO 2001US20197	A	20010621	200231	B
US 20020016718	A1	20020207	US 2000602643	A	20000622	200231	E
			US 2001771446	A	20010125		
			US 2001871997	A	20010601		
US 20020019751	A1	20020214	US 2000602643	A	20000622	200231	E
			US 2001771446	A	20010125		
AU 200170145	A	20020102	AU 200170145	A	20010621	200233	E
US 6400797	B1	20020604	US 2000602634	A	20000622	200242	E
EP 1295464	A1	20030326	EP 2001948697	A	20010621	200323	E
			WO 2001US20197	A	20010621		
GB 2382701	A	20030604	WO 2001US20197	A	20010621	200337	E
			GB 2003606	A	20030110		
US 6678703	B2	20040113	US 2000602643	A	20000622	200405	E
			US 2001771446	A	20010125		
JP 2004512579	W	20040422	WO 2001US20197	A	20010621	200428	E
			JP 2002504127	A	20010621		

Priority Applications (no., kind, date): US 2000602634 A 20000622; US 2000602643 A 20000622; US 2001771446 A 20010125; US 2001871997 A 20010601

**Alerting Abstract** ...records are then passed to a central data management system (30), before being pushed to remote image viewing systems (40). The images are provided with **unique type identifiers**. ...USE - Capturing, transmitting, storing, processing and communicating **electronic records** associated with **medical images**...

**.Original Abstracts:**present invention provides a medical image management system and method that uses a central data management system to centrally manage the storage and transmission of **electronic records** containing **medical images between** remotely **located** facilities. The present invention also provides a system and method for packaging an image for secure transmission. The present invention also provides a system for... ... present invention provides a medical image management system and method that uses a central data management

system to centrally manage the storage and transmission of **electronic records** containing **medical** images between remotely located facilities. **The present invention also** provides a system and method for packaging an image for secure transmission. The present invention also provides a system for tracking delivery and review of... ... system and method for providing lifetime storage of images that may be accessed by different authorized imaging centers and providers throughout the life of the **patient**. An image or **file** is **packaged** to be **transmitted** through a firewall **of an image** viewing location and stored in a relational database at the remote viewer. The image is delivered to a physician for ready accessibility at a remote... ... present invention provides a medical image management system and method that uses a central data management system to centrally manage the storage and transmission of **electronic records** containing **medical** images between remotely located facilities. A polling system is provided **with remotely** located **workstations** or local workstations so that the remote or local workstations may request queued data to be delivered that is awaiting delivery in the central database... ... The present invention provides a medical image management system and method that uses a central data management system to centrally manage the storage and **transmission** of **electronic records** containing **medical** images between remotely located facilities. A polling system is provided with remotely located workstations or **local workstations** so **that** the remote or local workstations may request queued data to be delivered that is awaiting delivery in the central database management system. The remotely located ... present invention provides a medical image management system and method that uses a central data management system to centrally manage the storage and transmission of **electronic records** containing **medical** images between remotely located facilities. The present invention also provides a system and method for **packaging** an image for secure **transmission**. **The present invention** also provides a system for tracking delivery and review of images and various attachments or augmentations to the image files. The invention that may be... ... the patient. Various files may be added to the patient's file at remote viewers. Overlays, reports and other attachments are created or input at **image** viewing **stations** and may **packaged** for delivery **to authorized locations** and are tracked and stored by a data center. ... ..

**Claims:**message,said object file comprising an electronic file relating to an image and identifying information uniquely identifying the electronic image,said header comprising a destination **identifier**, an origination **identifier** and an attachment **identifier**, wherein said attachment identifier comprises an object type identifier configured to identify the type of object file attached to said message and a portion of... ... What is claimed is:1. A medical image management system comprising;a central data management system which is adapted to receive and store an **electronic record** from a **medical** imaging device; anda remote image viewing system arranged to receive the electronic record and to display the record in a visible format, said central **data management** system and **said** remote image viewing system being in communication along a remote interface;wherein said central data management system is configured to push the electronic record to... ... What is claimed is:1. A medical image management system comprising;a central data management system which is adapted to receive and store an **electronic record** from a **medical** imaging device; anda remote image viewing system arranged to receive the electronic record and to display the record in a visible format, said central... ... system and said remote image viewing system being in communication along a remote interface;wherein said central data management system is configured to push the **electronic** record **to the** remote image **viewing** system and to store the electronic record in a queue if the central data management system fails to push the electronic record; andwherein said...

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28/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0009728119 *Drawing available*

WPI Acc no: 2000-012940/200001

Related WPI Acc No: 1999-254489; 2000-663793

**Packet-based telemedicine system for monitoring remotely located patients**

Patent Assignee: GEORGIA TECH RES CORP (GTEK)

Inventor: BURROW M; HOPPER A; PANCHAL S; PEIFER J W; PRICE W E; QUAY A; SEARLE J R;  
SUDDUTH B

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5987519	A	19991116	US 199626986	P	19960920	200001	B
			US 1997933388	A	19970919		

Priority Applications (no., kind, date): US 199626986 P 19960920; US 1997933388 A 19970919

**Original Titles:**Telemedicine system using voice video and data **encapsulation** and de- **encapsulation** for communicating **medical information** between central monitoring stations and remote patient monitoring stations.

**Alerting Abstract** ...controller provided in the patient monitoring station also receives medical data from medical devices via medical device interface and delivers the data to LAN card. **Encapsulation** of voice, video and **medical data** in packets is done by LAN card using TCP/IP which is a communication protocol and are sent to central monitoring station via the hybrid... Original Publication Data by AuthorityArgentina**Publication No.**

**Original Abstracts:**The present invention provides a packet-based telemedicine system for communicating video, voice and **medical** data between a central monitoring station and a patient monitoring station which is remotely-located with respect to the central monitoring station. The patient monitoring station obtains **digital** video, voice and **medical** measurement **data** from a **patient** and **encapsulates** the **data** in packets and sends the packets over a network to the central monitoring station. Since the information is encapsulated in packets, the information can be... **Claims:**in communication with the control unit and delivering the medical data to a first communication device in communication with the control unit, the communication device **encapsulating** the **medical data** in packets in accordance with a preselected communication protocol and outputting the packets onto the network; and a second control unit located at the central... a second communication device, the second communication device receiving the packets output by the first communication device onto the network, the second communication device de-**encapsulating** the packets to reconstruct the **medical data**, the reconstructed **medical data** being provided to the second control unit;wherein the first control unit receives video and voice data from videoconferencing equipment in communication with the control...

28/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0009322936 *Drawing available*

WPI Acc no: 1999-254489/199921

Related WPI Acc No: 2000-012940; 2000-663793

**Network medical voice, video and data transmission system**

Patent Assignee: GEORGIA TECH RES CORP (GTEK)

Inventor: BURROW M; HOPPER A; PANCHAL S; PEIFER J W; PRICE W E; QUAY A; SEARLE J R;  
SUDDUTH B

Patent Family ( 7 patents, 25 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999014882	A2	19990325	WO 1998US19636	A	19980918	199921	B
CN 1270676	A	20001018	CN 1998809286	A	19980918	200103	E
EP 1066698	A2	20010110	EP 1998949388	A	19980918	200103	E
			WO 1998US19636	A	19980918		
TW 400503	A	20000801	TW 1998115673	A	19980921	200109	E
KR 2001024135	A	20010326	KR 2000702895	A	20000318	200161	E

JP 2001516930	W	20011002	WO 1998US19636	A	19980918	200172	E
			JP 2000512305	A	19980918		
MX 2000002618	A1	20010701	MX 20002618	A	20000315	200236	E

Priority Applications (no., kind, date): US 1997933388 A 19970919

...**Original Abstracts:**a central monitoring station and a patient monitoring station which is remotely-located with respect to the central monitoring station. The patient monitoring station obtains **digital** video, voice and **medical** measurement **data** from a **patient** and **encapsulates** the **data** in packets and sends the packets over a network to the central monitoring station. Since the information is encapsulated in packets, the information can be... ... a central monitoring station and a patient monitoring station which is remotely-located with respect to the central monitoring station. The patient monitoring station obtains **digital** video, voice and **medical** measurement **data** from a **patient** and **encapsulates** the **data** in packets and sends the packets over a network to the central monitoring station. Since the information is encapsulated in packets, the information can be...

DIALOG(R)File 348: EUROPEAN PATENTS

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19/3K/1 (Item 1 from file: 348)

01413407

**A SYSTEM USING A MASTER CONTROL FILE FOR COMPUTER SOFTWARE**

SYSTEM MIT EINER MASTER-STEUERDATEI FUR COMPUTERSOFTWARE

SYSTEME UTILISANT UN FICHER MAITRE DE COMMANDE POUR LOGICIEL INFORMATIQUE

**Patent Assignee:**

- **Visual Telecommunications Network, Inc.** (4013090)  
8201 Greensboro Drive, Suite 820; McLean, VA 22102 (US)  
(Proprietor designated states: all)

**Inventor:**

- **MURACA, John**  
221 Elizabeth Street; Utica, NY 13501; (US)

**Legal Representative:**

- **Walaski, Jan Filip et al (92081)**  
Venner Shipley LLP 20 Little Britain; London EC1A 7DH; (GB)

	Country	Number	Kind	Date	
Patent	EP	1312031	A1	20030521	(Basic)
Patent	EP	1312031	B1	20060426	
	WO	2002011052		20020207	
Application	EP	2001959252		20010727	
	WO	2001US23621		20010727	
Priorities	US	221558	P	20000728	
	US	236726	P	20001002	
	US	853703		20010514	

**Specification:** ...The MedVizer Basket presents a new approach to the seamless integration of information in a healthcare enterprise on intranets or across public and private Internets. **Patient** episode **data** are captured,

compressed, **encrypted**, and **encapsulated** into a single secure file. The MedVizer Basket allows complete medical records to be shared in a secure environment, regardless of the source of information ...blood pressure, blood-oxygen and blood-sugar levels by the use of Pocket Devices(PD) .

Using the Global Medical Records System of the present invention, **patient** episode **data** is captured, compressed, **encrypted**, and **encapsulated** into a single secure file and e-mailed to the repository's mail server. MedVizer Postmaster, located on the repository's mail server, is continuously... ..compliant) via e-mail, anytime and anywhere.

The Pocket Device of the present invention acquisition is a home care monitoring solution that automatically captures, compresses, **encrypts**, and **encapsulates patient** episode **data** into a single secure file and sends patient data via Internet e-mail to the referring facility for review eliminating scheduling office visits and the...

...PostMaster 2212 presents a new approach for the seamless integration of information in a healthcare enterprise, on an intranet or across public and private internets. **Patient** episode **data** is captured, compressed, **encrypted**, and **encapsulated** into a single secure file and emailed to the mail server where PostMaster processes incoming mail. Complete medical records can be shared in a secure...

**Claims:** ...the image data in medical modality formats and in multi-media formats.

2. A system according to claim 1, further comprising means for capturing, compressing, **encrypting** and **encapsulating patient** episode **data** into a secure file.

3. A system according to claim 1 or 2, wherein the device is configured to transmit the secure file to a... ..and retrieve the image data in medical modality formats and in multi-media formats.

7. A method according to claim 6, further comprising:capturing, compressing, **encrypting** and **encapsulating patient** episode **data** into a secure file.

8. A method according to claim 6 or 7, further comprising transmitting the secure file to a repository mail server;de...

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## B. Additional Resources Searched

### Google Patents

#### **Telemedicine system using voice video and data encapsulation**

The present invention provides a packet-based telemedicine system for communicating video, voice and medical data between a central monitoring station and a patient monitoring station which is remotely-located with respect to the central monitoring station. The patient monitoring station obtains...

**Inventors:** John W. Peifer, Andrew Hopper, Michael Burrow, Barry Sudduth, Samir Panchal, Andy Quay, W. Edward Price, John R. Searle

**Assignee:** Georgia Tech Research Corporation

**Patent number:** 5987519

**Filing date:** Sep 19, 1997

**Issue date:** Nov 16, 1999

What is claimed is:

1. A telemedicine system for transmitting voice, video and medical data between a central monitoring station and a patient monitoring station over a network, the telemedicine system comprising:

a first control unit located at the patient monitoring station, the control unit receiving medical data from one or more medical instruments in communication with the control unit and delivering the medical data to a first communication device in communication with the control

unit, the communication device encapsulating the medical data in packets in accordance with a preselected communication protocol and outputting the packets onto the network; and a second control unit located at the central monitoring station, the second control unit being in communication with a second communication device, the second communication device receiving the packets output by the first communication device onto the network, the second communication device de-encapsulating the packets to reconstruct the medical data, the reconstructed medical data being provided to the second control unit; wherein the first control unit receives video and voice data from videoconferencing equipment in communication with the control unit and delivers the video and voice data to the first communication device, the communication device encapsulating the video and voice data in packets in accordance with the preselected communications protocol and outputting the packets onto the network, wherein the second communication device receives the packets encapsulating the video and voice data and de-encapsulates the packets to reconstruct the video and voice data, the second communication device providing the video and voice data to the second control unit.

2. The telemedicine system of claim 1, wherein the telemedicine system is for transmitting voice, video and medical data between a plurality of central monitoring stations and a plurality of patient monitoring stations, each patient monitoring station comprising said first control unit and each of said central monitoring stations comprising said second control unit.



## **II. Inventor Search Results from Dialog**

21/3K/1 (Item 1 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00956983

### **SYSTEM AND METHOD FOR ELECTRONIC MEDICAL FILE MANAGEMENT**

### **SYSTEME ET PROCEDE DE GESTION DE FICHIERS MEDICAUX ELECTRONIQUES**

#### **Patent Applicant/Patent Assignee:**

- **HEALTHCARE VISION INC**

2601 Scott Avenue, Suite 600, Fort Worth, TX 76103; US; US(Residence); US(Nationality); (For all designated states except: US)

#### **Patent Applicant/Inventor:**

- **AKERS William Rex**

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8412 Palo Duro Court, Fort Worth, TX 76116; US; US(Residence); US(Nationality); (Designated only for: US)

- **HALE Kevin P**

3152 Tex Boulevard, Fort Worth, TX 76116; US; US(Residence); US(Nationality); (Designated only for: US)

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12900 Noyes Lane, Austin, TX 78732; US; US(Residence); US(Nationality); (Designated only for: US)

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- **KING James R**

207 Vineyard, Waxahachie, TX 75167; US; US(Residence); US(Nationality); (Designated only for: US)

- **AKERS William Rex... ..Designated only for: US)**

- **CANTERBURY Jeff W... ..Designated only for: US)**

- **HALE Kevin P... ..Designated only for: US)**

- **MILLER Blake B**

... ..Designated only for: US)

- WALKER Craig Alan... ...Designated only for: US)
- GRAVES Jerry L... ...Designated only for: US)
- PATTERSON Jay Travis... ...Designated only for: US)
- NORMYLE Robert J... ...Designated only for: US)
- WATTS Brandon T... ...Designated only for: US)
- RAU Karen D... ...Designated only for: US)
- KING James R

**Legal Representative:**

- **ROURK Christopher J (agent)**  
Akin, Gump, Strauss, Hauer & Feld, LLP, Suite 4100, 1700 Pacific Avenue, Dallas, TX 75201-4675; US

	Country	Number	Kind	Date
Patent	WO	200291129	A2-A3	20021114
Application	WO	2002US14682		20020508
Priorities	US	2001851745		20010509

31/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0013049475 *Drawing available*

WPI Acc no: 2003-128926/200312

Related WPI Acc No: 2003-719760; 2004-168034; 2004-168035

XRPX Acc No: N2003-102491

**Electronic medical files transfer system has medical record data file stored in record server, which comprises encapsulated medical record data**

Patent Assignee: AKERS W R (AKER-I); CANTERBURY J W (CANT-I); GRAVES J L (GRAV-I); HALE K P (HALE-I); HEALTHCARE VISION INC (HEAL-N); KING J R (KING-I); MILLER B B (MILL-I); NORMYLE R J (NORM-I); PATTERSON J T (PATT-I); RAU K D (RAUK-I); WALKER C A (WALK-I); WATTS B T (WATT-I)

Inventor: **AKERS W R; CANTERBURY J W; GRAVES J L; HALE K P ; KING J R; MILLER B B; NORMYLE R J; PATTERSON J T; RAU K D; WALKER C A; WATTS B T**

Patent Family ( 7 patents, 98 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020169637	A1	20021114	US 2001851745	A	20010509	200312	B
WO 2002091129	A2	20021114	WO 2002US14682	A	20020508	200312	E
EP 1393232	A2	20040303	EP 2002747825	A	20020508	200417	E
			WO 2002US14682	A	20020508		
AU 2002318124	A1	20021118	AU 2002318124	A	20020508	200452	E
MX 2003010289	A1	20050101	WO 2002US14682	A	20020508	200564	E
			MX 200310289	A	20031110		
AU 2002318124	A8	20051013	AU 2002318124	A	20020508	200611	E
MX 249937	B	20071005	WO 2002US14682	A	20020508	200919	E

			MX 200310289	A	20031110
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Priority Applications (no., kind, date): US 2001851745 A 20010509

### III. Text Search Results from Dialog

#### A. Patent Files, Abstract

**File 347:JAPIO Dec 1976-2009/May (Updated 090903)**

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**File 350:Derwent WPIX 1963-2009/UD=200956**

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Set	Items	Description
S1	44226	(MEDICAL OR HEALTHCARE OR HEALTH()CARE OR PATIENT? ? OR HOSPITAL OR TELEMEDIC?) (3N) (FILE OR FILES OR RECORD OR RECORDS - OR FORM OR FORMS OR CHART OR CHARTS OR DOCUMENT? ? OR DATA OR DATAFILE? ? OR INFORMATION)
S2	4534	(ELECTRONIC? OR COMPUTER?ED OR COMPUTER() (BASED OR IMPLEMENTED) OR AUTOMAT? OR DIGITAL? OR INTERACTIV?) (3N)S1
S3	376	(ENCAPSULAT? OR COMPRESS? OR PACKAGE OR PACKAGED OR PACKAGING OR HIDING OR WRAPPING OR WRAPPED OR ENCASING OR ENCASED OR INCASING OR INCASED OR CAPSULIS? OR CAPSULIZ?) (5N)S1
S4	34261	(ENCRYPT? OR ENCOD? OR PROTECT? OR ENCIPHER? OR ENCPHER? - OR CIPHER? OR CYPHER? OR SCRAMBL?) (4N) (ALGORITHM? OR FORMULA - OR FORMULAS OR FORMULAE OR FORMULATION OR RULE OR RULES OR PROCEDURE? ? OR INSTRUCTION? ? OR COMMAND? ? OR EQUATION? ?)
S5	202554	(UNIQUE? OR DISTINCT? OR CUSTOMI?E? ? OR SPECIFIC? OR DESIGNATED OR ASSIGNED OR DISTINGUISH? OR ASSIGN?) (3N) (VALUE OR NUMBER? OR CODE OR CODES OR CODING OR CODIFICATION OR KEY? ? OR IDENTIFIER? ? OR ID)
S6	896	(ENTIRE OR ENTIRETY OR WHOLE OR WHOLLY OR COMPLETE OR COMPLETENESS OR FULL OR FULLY OR FULLNESS OR INTACT OR TOTAL OR TOTALITY OR UNDIVIDED OR UNIFIED OR ALL) (3N)S1
S7	408619	(STRUCTUR? OR FORMAT? OR ARCHITECTURE OR CONSTRUCTION OR TYPE OR CONFIGURATION OR VERSION OR ARRANGEMENT OR FILETYPE? ? OR FILEFORMAT? ?) (5N) (DATA OR FILE OR FILES OR RECORD OR RECORDS OR DOCUMENT? ? OR CONTENT? ? OR INFORMATION)
S8	251574	(DETERMIN? OR DETECT? OR IDENTIF? OR RECOGNI? OR EXPOSE? ? OR EXPOSING OR SPOT? ? OR SPOTTING OR CATCH? OR MONITOR? OR TRACK? OR PREVENT? OR ALERT? OR WARN? OR REPORT? OR REVEAL? OR UNCOVER? OR PREVENT? OR NOTICE? ? OR NOTICING) (4N) (MODIF? OR ALTERATION? ? OR ALTERING OR ALTERED OR TAMPER? OR CHANGE OR CHANGES OR MANIPULAT? OR EDIT? ? OR EDITING OR EDITED)
S9	49	S2 AND S3
S10	1	S9 AND S4
S11	2	S9 AND S5
S12	3	S4 AND S5 AND S6 AND S7
S13	12	S3 AND S8
S14	0	S13 AND S5
S15	1	S13 AND S4
S16	0	S3 AND S4 AND S5
S17	173	S2 AND S8
S18	2	S17 AND S4 AND S5
S19	3	S3 AND S4
S20	20	S10 OR S11 OR S12 OR S13 OR S18 OR S19
S21	24	S1 (5N)ENCAPSULAT?

S22 3 S21 AND (ENCRYPT? OR ENCOD? OR ENCYPER? OR ENCIPHER?)  
 S23 0 S21 AND ALGORITHM?  
 S24 1 S21 AND S8  
 S25 1 S21 AND S5  
 S26 4 (S22 OR S24 OR S25) NOT S20  
 S27 5 S21 AND S2  
 S28 3 S27 NOT (S20 OR S26)  
 S29 16 S21 NOT (S20 OR S26 OR S28)  
 S30 3914 AU=((AKERS, W? OR AKERS W? OR AKERS(2N)W?) OR (CANTERBURY,  
 J? OR CANTERBURY J? OR CANTERBURY(2N)J?) OR (MILLER, B? OR MI-  
 LLER B? OR MILLER(2N)B?) OR (WALKER, C? OR WALKER C? OR WALKER  
 R(2N)C?) OR (KING, J? OR KING J? OR KING(2N)J?) OR (GRAVES, J?  
 OR GRAVES J? OR GRAVES(2N)J?) OR (PATTERSON, J? OR PATTERSON  
 J? OR PATTERSON(2N)J?) OR (NORMYLE, R? OR NORMYLE R? OR NORMY-  
 LE(2N)R?) OR (HALE, K? OR HALE K? OR HALE(2N)K?) OR (WATTS, B?  
 OR WATTS B? OR WATTS(2N)B?) OR (RAU, K? OR RAU K? OR RAU(2N)-  
 K?))  
 S31 1 S30 AND S3

20/3,K/10 (Item 10 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0013049475 *Drawing available*

WPI Acc no: 2003-128926/200312

Related WPI Acc No: 2003-719760; 2004-168034; 2004-168035

XRPX Acc No: N2003-102491

**Electronic medical files transfer system has medical record data file stored in record server, which comprises encapsulated medical record data**

Patent Assignee: AKERS W R (AKER-I); CANTERBURY J W (CANT-I); GRAVES J L (GRAV-I); HALE K P (HALE-I); HEALTHCARE VISION INC (HEAL-N); KING J R (KING-I); MILLER B B (MILL-I); NORMYLE R J (NORM-I); PATTERSON J T (PATT-I); RAU K D (RAUK-I); WALKER C A (WALK-I); WATTS B T (WATT-I)

Inventor: AKERS W R; CANTERBURY J W; GRAVES J L; HALE K P; KING J R; MILLER B B; NORMYLE R J; PATTERSON J T; RAU K D; WALKER C A; WATTS B T

Patent Family ( 7 patents, 98 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020169637	A1	20021114	US 2001851745	A	20010509	200312	B
WO 2002091129	A2	20021114	WO 2002US14682	A	20020508	200312	E
EP 1393232	A2	20040303	EP 2002747825	A	20020508	200417	E
			WO 2002US14682	A	20020508		
AU 2002318124	A1	20021118	AU 2002318124	A	20020508	200452	E
MX 2003010289	A1	20050101	WO 2002US14682	A	20020508	200564	E
			MX 200310289	A	20031110		
AU 2002318124	A8	20051013	AU 2002318124	A	20020508	200611	E
MX 249937	B	20071005	WO 2002US14682	A	20020508	200919	E
			MX 200310289	A	20031110		

Priority Applications (no., kind, date): US 2001851745 A 20010509

20/3,K/11 (Item 11 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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0012962377 *Drawing available*  
WPI Acc no: 2003-039481/200303  
XRPX Acc No: N2003-030860

**Electronic file protection method e.g. for image, text documents involves performing X-OR process on binary data block using integer values obtained from private key**

Patent Assignee: HARPER T K (HARP-I); STOUT B C (STOU-I)

Inventor: HARPER T K; STOUT B C

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020124177	A1	20020905	US 2001764020	A	20010117	200303	B

Priority Applications (no., kind, date): US 2001764020 A 20010117

**Original Titles:**Methods for encrypting and decrypting **electronically** stored **medical records** and other **digital** documents for secure storage, retrieval and sharing of such documents **Alerting Abstract** DESCRIPTION - An INDEPENDENT CLAIM is included for computer readable medium storing electronic file **protection instruction**. ... **ADVANTAGE** - The unauthorized capture or access to sensitive medical record transmitted over Internet and unauthorized **alteration** of the records are **prevented** by appending a unique suffix into the files formed by the stored encrypted blocks by performing X-OR process that facilitates decryption of the blocks  
Original Publication Data by AuthorityArgentina**Publication No.** ...**Original Abstracts:**and private components. The "public key" is typically stored and sent together with the encrypted file in the form of a unique file type that **includes** the public **key** appended to the front encrypted file portion. A new public key is typically generated for each electronic file that is encrypted. The "private key" is... .. It may be hard-coded within the decryption software provided to the decrypting party, or it may be obtained by means of a secure password-**protected** login **procedure**. The **software** utilized in decrypting the **encrypted** file may also provide limited output, such as merely the ability to view and/or print a hard copy of the decrypted file. ...**Claims:**in the first key;(d) providing a key algorithm that relates the first and second keys together;(e) selecting from the plaintext file a block of binary data to be **encrypted**;(f) selecting, according to the key algorithm, an integer value from the second key;(g) inputting, according to **the** key **algorithm**, the integer value selected from the second key into the first key so as to obtain one or more integer values;(h) performing an XOR...

20/3,K/16 (Item 16 from file: 350)  
DIALOG(R)File 350: Derwent WPIX  
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0009923790 *Drawing available*  
WPI Acc no: 2000-224068/200019  
XRPX Acc No: N2000-167966

**Surgical report generator e.g. for endoscopic surgery, records required surgical image in video card along with recording of surgical comments in audio card during surgery**

Patent Assignee: CONTEC MEDICAL LTD (CONT-N)

Inventor: SNEH N

Patent Family ( 2 patents, 20 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000008585	A2	20000217	WO 1999IB1425	A	19990727	200019	B
EP 1103028	A2	20010530	EP 1999935009	A	19990727	200131	E
			WO 1999IB1425	A	19990727		

Priority Applications (no., kind, date): US 1998128460 A 19980804

**Alerting Abstract** ... and reporting audio and video data documenting surgical procedure. Reduces time, effort and duplication in recording and editing both video and audio data for preparation of surgical and diagnostic **report**. Facilitates integration of patient data with surgical data to form preformatted multimedia textual report. Maintains on-line consultation with remote sites through communication networks. Improves... patient, preparation of post operative report, lectures and presentation. Enables inclusion of data from MRI, CT, Ultrasound and X-Ray image databases. Enables viewing, and **editing** of **report** at home, in office using word processor. **Facilitates** real-time **modification** and updating of surgical data. Enables easy retrieval of statistics from digital multimedia database using data, patient name, surgeon name. Improves data safety by including... Original Publication Data by AuthorityArgentina**Publication No.** ...**Original Abstracts:**deemed most appropriate for inclusion in a surgical report. The selected images and comments are downloaded into a word processing software package which combines the **images** and audio comments with other **information** such as **patient data** and surgery **data**. A final report is produced with preformatted electronically produced templates displaying text and images and allowing for the audio replay of the surgeon's comments... in a surgical report. The selected images and comments are downloaded into a word processing software package which combines the images and audio comments with **other information** such as **patient data** and surgery **data**. A final report is produced with preformatted electronically produced templates displaying text and images and allowing for the audio replay of the surgeon's comments...

20/3,K/17 (Item 17 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0008069732 *Drawing available*

WPI Acc no: 1997-165606/199715

XRPX Acc No: N1997-136353

**Variable code width data compression method for medical images - having differential data output in code widths that can be varied and altered by set of common rules in encoder and decoder**

Patent Assignee: KOPF D A (KOPF-I)

Inventor: KOPF D A

Patent Family ( 5 patents, 62 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997007599	A1	19970227	WO 1996US13022	A	19960809	199715	B
AU 199667714	A	19970312	AU 199667714	A	19960809	199727	E
EP 850513	A1	19980701	EP 1996928126	A	19960809	199830	E
			WO 1996US13022	A	19960809		
US 5825830	A	19981020	US 1995516383	A	19950817	199849	E
AU 704050	B	19990415	AU 199667714	A	19960809	199926	E

Priority Applications (no., kind, date): US 1995516383 A 19950817

**Alerting Abstract** ...input values by an appropriate operation such as differencing. The difference values are encoded into a defined bit width, and transmitted. A set of common **rules** are applied by the **encoder** and decoder to control the bit width in use. In the simplest rule, an escape code causes the bit width to increase by a defined... ..Other rules can apply a hysteresis to **prevent** undue **changes** to the bit width. The bit widths can be increased by a specific amount using illogical values. Run length coding can be applied, and optionally... Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**the current field width and encoded data value (steps 4 and 5). An escape code is used to increase the field width for the next **encoded** value (step 2). **A rule** for efficient run=**length encoding** of repeated values **or** codes may also be included... .. data compression method utilizing a series of rules which are chosen for best compressing selected data. Rules are provided for converting each datum into a **binary** value, and **encoding** this binary value into a variable-width bit **field**. **Rules** are provided for automatically increasing or decreasing the **binary** field width which **encodes** the next data value, based on the current field width and encoded data value. An escape code is used to increase the field width for the next **encoded** value. **A rule** for efficient run-length **encoding** of repeated values **or** codes may also be **included**. ... .. utilizing a series of rules which are chosen for best compressing selected data. Rules are provided for converting each datum into a binary value, and **encoding** this **binary** value into a variable-width bit field (step 1). **Rules** are **provided** for automatically increasing or decreasing the binary field width which **encodes** the next data value, based on the current field width and encoded data value (steps 4 and 5). An escape code is used to increase the field width for the next **encoded** value (step 2). **A rule** for efficient run=length **encoding** of repeated values **or** codes may also be **included**. >

26/3,K/2 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0015232360 *Drawing available*

WPI Acc no: 2005-582425/200559

XRPX Acc No: N2005-477905

**Method of diagnosing patient, involves processing information associated with patient through image reading platform, based on which matrix of diagnosis decisions is generated through matrix of diagnosis decision platform**

Patent Assignee: EDDA TECHNOLOGY INC (EDDA-N)

Inventor: FAN L; LIANG C; QIAN J; QUIAN J; WEI G; LIANG C C; WEI G Q

Patent Family ( 8 patents, 108 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2005072131	A2	20050811	WO 2005US118	A	20050105	200559	B
US 20050197567	A1	20050908	US 2004537558	P	20040121	200559	E
			US 2004562260	P	20040415		
			US 200424033	A	20041229		
US 20060094954	A1	20060504	US 2004537558	P	20040121	200631	E
			US 2004562260	P	20040415		
			US 200424033	A	20041229		
			US 200538491	A	20050121		
EP 1737340	A2	20070103	EP 2005704952	A	20050105	200703	E
			WO 2005US118	A	20050105		
JP 2007526799	W	20070920	WO 2005US118	A	20050105	200763	E
			JP 2006551103	A	20050105		



CN 101203747	A	20080618	CN 200580002905	A	20050105	200857	E
			WO 2005US118	A	20050105		
TW 200530894	A	20050916	TW 2005100341	A	20050106	200957	E
US 20090221881	A1	20090903	US 2004537558	P	20040121	200958	E
			US 2004562260	P	20040415		
			US 200424033	A	20041229		
			US 2009407335	A	20090319		

Priority Applications (no., kind, date): US 2004537558 P 20040121; US 2004537558 P 20040121; US 2004562260 P 20040415; US 2004562260 P 20040415; US 200424033 A 20041229; US 200538491 A 20050121; US 2009407335 A 20090319

**Claims:**claim 56, wherein the scheme used is based on at least one of: a certain naming convention applied to a piece of information; and a **unique** identity **coding** convention used for a piece of information...CLAIM 97] A method of processing **medical information** comprises: accessing **information** associated with a **patient** study; **encapsulating** each piece of the information with one or more tools capable of manipulating the underlying piece of information; processing a piece of the **information** associated with the **patient** study when a tool **encapsulated** with the piece of information is activated ...diagnosis relevant information associated with a patient study; generating a matrix of diagnosis decisions with respect to the patient study based on the diagnosis relevant **information** associated with the **patient** study; and **encapsulating** one or more tools with the diagnosis relevant information, wherein the encapsulated tools are capable of being used to process the diagnosis relevant information in... ..capable of facilitating accessing and processing of information associated with a patient study to produce diagnosis relevant information using one or more processing assistance tools **encapsulated** with the **information** associated with the **patient** study; a matrix of diagnosis decision platform capable of facilitating generation of a matrix of diagnosis decisions based on the diagnosis relevant information and diagnosis...

26/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0015067226 *Drawing available*

WPI Acc no: 2005-416460/200542

XRPX Acc No: N2005-337841

**Multi-media patient summary for use in e.g. hospital information system, has digital file encapsulating patient information, where file is stored onto machine readable medium and template is created to specify contents of summary**

Patent Assignee: BRACKETT C C (BRAC-I); FORS S L (FORS-I); MORITA M M (MORI-I)

Inventor: BRACKETT C C; FORS S L; MORITA M M

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050114179	A1	20050526	US 2003723676	A	20031126	200542	B

Priority Applications (no., kind, date): US 2003723676 A 20031126

.NOVELTY - The summary has a digital **file** that **encapsulates patient information** accessed at a compilation workstation from several systems. The formats of the information include text, image, video, waveforms and hypertext links. The file is stored... Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**the needs of the specific care provider, and may include, for example, clinical data, patient demographics, and reference materials. The summary may be a digital **file** that **encapsulates patient information** having **formats, such as** text, images, sound files, video, waveforms, hypertext links, and so forth. The file may

be **encrypted** and require a **proprietary** or non-proprietary reader to view. Additionally, the flow of information may be bi-directional between the multi-media patient summary and users of the... **Claims:**1. A multi-media patient summary comprising:a **digital file encapsulating patient information** of one **or more formats and** generated by:accessing **patient information** at a compilation workstation from one or more systems;entering the patient information into the digital file;storing the digital file onto a machine readable...

28/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0018676484 *Drawing available*

WPI Acc no: 2009-E24703/200911

**Medical data transmission device for use in hospital, has universal interface server that has data integration function and network security function so that medical information is not directly exposed to public network**

Patent Assignee: ZHONGSHAN AIKE DIGITAL SCI&TECH (ZHON-N)

Inventor: CHEN Q; LU L; LUO X; YU Y

Patent Family ( 1 patents, 1 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
CN 101340448	A	20090107	CN 200810028611	A	20080610	200911	B

Priority Applications (no., kind, date): CN 200810028611 A 20080610

**Alerting Abstract** ...server arranged in each hospital, has data integration function and network security function so that medical information is not directly exposed to public network. The **medical information is encapsulated** in XML format and transmitted using simple object access protocol (SOAP) and HTTP. Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:** The invention claims a set of **medical data** integration solution for **digital** home for the blank of digital home in the aspect of medical information service, the solution can realize the effective integration on the medical data... **Claims:**[CLAIM 1] A **medical data** integration solution for **digital** home, wherein an universal interface server system is arranged in each hospital to shield the isomerism of information system in each hospital by way of...

29/3,K/13 (Item 12 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0011225548 *Drawing available*

WPI Acc no: 2002-164844/200221

XRPX Acc No: N2002-125770

**Method for routing and storage within a computer network used in medical imaging environment by selecting route from routing information based on destination information of the network communication and result of comparison**

Patent Assignee: ACUO TECHNOLOGIES LLC (ACUO-N); GENDRON D P (GEND-I); KINGSBURY D P (KING-I); ROMATOSKI J A (ROMA-I); SITKA L R (SITK-I)

Inventor: GENDRON D P; GENDRON P; KINGSBURY D P; KINGSBURY P; ROMATOSKI A; ROMATOSKI J A; SITKA L R; SITKA R

Patent Family ( 21 patents, 93 countries )							
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Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002009357	A2	20020131	WO 2001US23186	A	20010724	200221	B
US 20020023172	A1	20020221	US 2000220586	P	20000725	200221	E
			US 2001911844	A	20010724		
US 20020028007	A1	20020307	US 2000220586	P	20000725	200221	E
			US 2001911846	A	20010724		
US 20020035638	A1	20020321	US 2000220586	P	20000725	200224	E
			US 2001911847	A	20010724		
US 20020038381	A1	20020328	US 2000220586	P	20000725	200225	E
			US 2001911849	A	20010724		
AU 200176028	A	20020205	AU 200176028	A	20010724	200236	E
EP 1303951	A2	20030423	EP 2001953595	A	20010724	200329	E
			WO 2001US23186	A	20010724		
EP 1351455	A2	20031008	EP 2001953595	A	20010724	200370	E
			EP 20031586	A	20010724		
EP 1351456	A2	20031008	EP 2001953595	A	20010724	200370	E
			EP 20031587	A	20010724		
EP 1351457	A2	20031008	EP 2001953595	A	20010724	200370	E
			EP 20031588	A	20010724		
CA 2440688	A1	20020131	CA 2416783	A	20010724	200375	E
			CA 2440688	A	20010724		
CA 2440702	A1	20020131	CA 2416783	A	20010724	200375	E
			CA 2440702	A	20010724		
CA 2440730	A1	20020131	CA 2416783	A	20010724	200375	E
			CA 2440730	A	20010724		
EP 1303951	B1	20050323	EP 2001953595	A	20010724	200523	E
			WO 2001US23186	A	20010724		
			EP 20031586	A	20010724		
			EP 20031587	A	20010724		
			EP 20031588	A	20010724		
DE 60109621	E	20050428	DE 60109621	A	20010724	200530	E
			EP 2001953595	A	20010724		
			WO 2001US23186	A	20010724		
AU 2001276028	A8	20050908	AU 2001276028	A	20010724	200568	E
DE 60109621	T2	20060119	DE 60109621	A	20010724	200612	E
			EP 2001953595	A	20010724		
			WO 2001US23186	A	20010724		

EP 1351455	B1	20061220	EP 2001953595	A	20010724	200702	E
			EP 20031586	A	20010724		
DE 60125414	E	20070201	DE 60125414	A	20010724	200722	E
			EP 20031586	A	20010724		
DE 60125414	T2	20071004	DE 60125414	A	20010724	200767	E
			EP 20031586	A	20010724		
US 7640171	B2	20091229	US 2000220586	P	20000725	201002	E
			US 2001911846	A	20010724		

Priority Applications (no., kind, date): US 2000220586 P 20000725; US 2001911844 A 20010724; US 2001911846 A 20010724; US 2001911847 A 20010724; US 2001911849 A 20010724

...**Claims:**A computer-readable medium having a storage asset defined as **encapsulated medical** imaging **data** therein comprising: a first data structure that stores asset meta information, being header information, to control routing of the asset through a medical imaging network...

29/3,K/15 (Item 14 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0006384213 *Drawing available*

WPI Acc no: 1993-183866/199323

XRPX Acc No: N1993-141315

**Electrical signal protection method for dental or medical electrical interface - separating encapsulated CCD sensor used in medical room forming areas of medical environment and creating X-ray image on display belonging to non-approved auxiliary equipment e.g. PC**

Patent Assignee: JOHANSSON B (JOHA-I); REGAM MEDICAL SYSTEMS INT AB (REGA-N)

Inventor: JOHANSSON B; THOERNBERG B

Patent Family ( 6 patents, 34 countries )							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 544974	A1	19930609	EP 1991850298	A	19911129	199323	B
WO 1993010709	A1	19930610	WO 1992SE812	A	19921125	199324	E
AU 199230999	A	19930628	AU 199230999	A	19921125	199342	E
JP 7501724	W	19950223	WO 1992SE812	A	19921125	199517	E
			JP 1993510042	A	19921125		
BR 199206840	A	19951031	BR 19926840	A	19921125	199601	E
			WO 1992SE812	A	19921125		
US 5671738	A	19970930	WO 1992SE812	A	19921125	199745	E
			US 1994244240	A	19940524		

Priority Applications (no., kind, date): EP 1991850298 A 19911129

**Claims:**said auxiliary electric equipment, said image visualizing data from a CCD sensor in the encapsulated X-ray sensing device, comprising the steps of: defining a **first** area of **medical** electric environment having **therein** a CCD sensor, and defining a second area of non-medical electric environment having therein auxiliary electric equipment not approved for use within said first...

## B. Patent Files, Full-Text

**File 348:EUROPEAN PATENTS 1978-200936**

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**File 349:PCT FULLTEXT 1979-2009/UB=20090827|UT=20090709**

(c) 2009 WIPO/Thomson

**File 325:Chinese Patents Fulltext 1985-20100331**

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Set	Items	Description
S1	87241	(MEDICAL OR HEALTHCARE OR HEALTH()CARE OR PATIENT? ? OR HOSPITAL OR TELEMEDIC?) (3N) (FILE OR FILES OR RECORD OR RECORDS - OR FORM OR FORMS OR CHART OR CHARTS OR DOCUMENT? ? OR DATA OR DATAFILE? ? OR INFORMATION)
S2	906	(ENCAPSULAT? OR COMPRESS? OR PACKAGE OR PACKAGED OR PACKAGING OR HIDING OR WRAPPING OR WRAPPED OR ENCASING OR ENCASED OR INCASING OR INCASED OR CAPSULIS? OR CAPSULIZ?) (5N)S1
S3	119579	(ENCRYPT? OR ENCOD? OR PROTECT? OR ENCIPHER? OR ENCYIPHER? - OR CIPHER? OR CYPHER? OR SCRAMBL?) (4N) (ALGORITHM? OR FORMULA - OR FORMULAS OR FORMULAE OR FORMULATION OR RULE OR RULES OR PROCEDURE? ? OR INSTRUCTION? ? OR COMMAND? ? OR EQUATION? ?)
S4	522328	(UNIQUE? OR DISTINCT? OR CUSTOMI?E? ? OR SPECIFIC? OR DESIGNATED OR ASSIGNED OR DISTINGUISH? OR ASSIGN?) (3N) (VALUE OR NUMBER? OR CODE OR CODES OR CODING OR CODIFICATION OR KEY? ? OR IDENTIFIER? ? OR ID)
S5	5141	(ENTIRE OR ENTIRETY OR WHOLE OR WHOLLY OR COMPLETE OR COMPLETENESS OR FULL OR FULLY OR FULLNESS OR INTACT OR TOTAL OR TOTALITY OR UNDIVIDED OR UNIFIED OR ALL) (3N)S1
S6	942340	(STRUCTUR? OR FORMAT? OR ARCHITECTURE OR CONSTRUCTION OR TYPE OR CONFIGURATION OR VERSION OR ARRANGEMENT OR FILETYPE? ? OR FILEFORMAT? ?) (5N) (DATA OR FILE OR FILES OR RECORD OR RECORDS OR DOCUMENT? ? OR CONTENT? ? OR INFORMATION)
S7	867499	(DETERMIN? OR DETECT? OR IDENTIFY? OR RECOGNI? OR EXPOSE? ? OR EXPOSING OR SPOT? ? OR SPOTTING OR CATCH? OR MONITOR? OR - TRACK? OR PREVENT? OR ALERT? OR WARN? OR REPORT? OR REVEAL? OR UNCOVER? OR PREVENT? OR NOTICE? ? OR NOTICING) (4N) (MODIF? OR ALTERATION? ? OR ALTERING OR ALTERED OR TAMPER? OR CHANGE OR - CHANGES OR MANIPULAT? OR EDIT? ? OR EDITING OR EDITED)
S8	3	S2 (20N) S3
S9	9	S2 (30N) S4
S10	0	S9 (10N) (S5 (10N) S6)
S11	1	S4 (5N) S5 (5N) S6
S12	472	S1 (10N) S7
S13	3	S12 (50N) S2
S14	94	S1 (5N)ENCAPSULAT?
S15	1	S14 (20N) S3
S16	1	S14 (20N) S4
S17	6	S14 (20N) (ENCRYPT? OR ENCOD? OR ENCYIPHER? OR ENCIPHER?)
S18	1	S14 (20N) ALGORITHM?
S19	19	S8 OR S9 OR S11 OR S13 OR S15 OR S16 OR S17 OR S18
S20	3218	AU=((AKERS, W? OR AKERS W? OR AKERS(2N)W?) OR (CANTERBURY, J? OR CANTERBURY J? OR CANTERBURY(2N)J?) OR (MILLER, B? OR MILLER B? OR MILLER(2N)B?) OR (WALKER, C? OR WALKER C? OR WALKER(2N)C?) OR (KING, J? OR KING J? OR KING(2N)J?) OR (GRAVES, J? OR GRAVES J? OR GRAVES(2N)J?) OR (PATTERSON, J? OR PATTERSON J? OR PATTERSON(2N)J?) OR (NORMYLE, R? OR NORMYLE R? OR NORMY-

LE(2N)R?) OR (HALE, K? OR HALE K? OR HALE(2N)K?) OR (WATTS, B?  
OR WATTS B? OR WATTS(2N)B?) OR (RAU, K? OR RAU K? OR RAU(2N)-  
K?))  
S21 2 S20 AND S2

19/3K/9 (Item 8 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00956983

# **SYSTEM AND METHOD FOR ELECTRONIC MEDICAL FILE MANAGEMENT**

## **SYSTEME ET PROCEDE DE GESTION DE FICHIERS MEDICAUX ELECTRONIQUES**

### **Patent Applicant/Patent Assignee:**

- **HEALTHCARE VISION INC**  
2601 Scott Avenue, Suite 600, Fort Worth, TX 76103; US; US(Residence); US(Nationality); (For all designated states except: US)

### **Patent Applicant/Inventor:**

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3305 Scarborough Lane Court, Colleyville, TX 76034; US; US(Residence); US(Nationality); (Designated only for: US)
- **CANTERBURY Jeff W**  
8412 Palo Duro Court, Fort Worth, TX 76116; US; US(Residence); US(Nationality); (Designated only for: US)
- **HALE Kevin P**  
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- **MILLER Blake B**  
12900 Noyes Lane, Austin, TX 78732; US; US(Residence); US(Nationality); (Designated only for: US)
- **WALKER Craig Alan**  
4522 Avenue C, Austin, TX 78751; US; US(Residence); US(Nationality); (Designated only for: US)
- **GRAVES Jerry L**  
1120 Forest Creek, Benbrook, TX 76126; US; US(Residence); US(Nationality); (Designated only for: US)
- **PATTERSON Jay Travis**  
1805 Pitcarin Lane #135, Arlington, TX 76015; US; US(Residence); US(Nationality); (Designated only for: US)
- **NORMYLE Robert J**  
1007 Saddlebrook Drive, Colleyville, TX 76034; US; US(Residence); US(Nationality); (Designated only for: US)
- **WATTS Brandon T**  
7356 Pineridge Drive, Park City, UT 84098; US; US(Residence); US(Nationality); (Designated only for: US)
- **RAU Karen D**  
10020 S. Rachel Rd. SW, Farwell, MN 56327; US; US(Residence); US(Nationality); (Designated only for: US)
- **KING James R**  
207 Vineyard, Waxahachie, TX 75167; US; US(Residence); US(Nationality); (Designated only for: US)

**Legal Representative:**

- **ROURK Christopher J (agent)**

Akin, Gump, Strauss, Hauer & Feld, LLP, Suite 4100, 1700 Pacific Avenue, Dallas, TX 75201-4675; US

	Country	Number	Kind	Date
Patent	WO	200291129	A2-A3	20021114
Application	WO	2002US14682		20020508
Priorities	US	2001851745		20010509

19/3K/12 (Item 11 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00866350

**MEDICAL IMAGE MANAGEMENT SYSTEM AND METHOD****SYSTEME ET PROCEDE DE GESTION D'IMAGES MEDICALES****Patent Applicant/Patent Assignee:**

- **RADVAULT INC**

Suite 4, 3541 Investment Blvd., Hayward, CA 94545; US; US(Residence); US(Nationality)

**Inventor(s):**

- **ROTHSCHILD Peter Alden**  
Suite 4, 3541 Investment Blvd., Hayward, CA 94545; US
- **PRASAD Vijendra Guru Raaj**  
Suite 4, 3541 Investment Blvd., Hayward, CA 94545; US
- **WEIR William M M**  
Suite 4, 3541 Investment Blvd., Hayward, CA 94545; US

**Legal Representative:**

- **SCHMITT Susan M(et al)(agent)**

P.O. Box 11339, Santa Rosa, CA 95406; US

	Country	Number	Kind	Date
Patent	WO	200199407	A1	20011227
Application	WO	2001US20197		20010621
Priorities	US	2000602634		20000622
	US	2001771446		20010125
	US	2001871997		20010601

**Claims:**

...an image unique identifier corresponding to an image file associated with said overlay annotation file, and wherein said portion of said identifying information comprises a **unique** overlay file **identifier** and said image **unique**

**identifier** corresponding to said image file associated with said overlay annotation **file**.

4 The **medical** image electronic **package** of claim 1 wherein said image forms at least in part a study, wherein said object file comprises a report associated with the study and...so that the attachment may be associated with the

image file in the central database.

18 The medical image viewing system of claim 17 wherein said **package** includes said key **information**.

19 The **medical** image viewing system of claim 18 wherein said **key** information comprises a **unique** image **identifier** corresponding to the image 1 5 file.

20 The medical image viewing system of claim 17 wherein the image file is at least a part..

19/3K/13 (Item 12 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00837934

**SYSTEM AND METHOD FOR THE CREATION OF VIRTUAL INFORMATION PACKAGES**  
**SYSTEME ET METHODE POUR CREATION DE PAQUETS VIRTUELS D'INFORMATIONS**

**Patent Applicant/Patent Assignee:**

- **VIRPACK COM**

Suite 201, 8605 Westwood Center Drive, Vienna, VA 22182; US; US(Residence); US(Nationality)

**Inventor(s):**

- **COAR Michael J**

1200 Meadow Green Lane, McLean, VA 22102; US

**Legal Representative:**

- **ROBERTS Jon L(et al)(agent)**

Roberts Abokhair and Mardula, LLC, Suite 1000, 11800 Sunrise Valley Drive, Reston, VA 20191; US

	Country	Number	Kind	Date
Patent	WO	200171571	A1	20010927
Application	WO	2001US9352		20010323
Priorities	US	2000533152		20000323

**Detailed Description:**

...available. Therefore, for example, a single package of the document delivery system of the present invention can easily contain a complete loan file, legal case **file** or **patient file**.

When an electronic or "virtual" **package** is created in accordance with the document delivery system of the present invention, the package or container includes a **unique identifier**, allowing for automated processing. In addition, it may also be lo encrypted. If the recipient does not have the proper decryption key loaded in their...

#### **IV. Text Search Results from Dialog**

##### **A. NPL Files, Abstract**



**File 35: Dissertation Abs Online 1861-2009/Aug**  
(c) 2009 ProQuest Info&Learning  
**File 583: Gale Group Globalbase(TM) 1986-2002/Dec 13**  
(c) 2002 Gale/Cengage  
**File 65: Inside Conferences 1993-2009/Sep 08**  
(c) 2009 BLDSC all rts. reserv.  
**File 2: INSPEC 1898-2009/Aug W4**  
(c) 2009 The IET  
**File 474: New York Times Abs 1969-2009/Sep 08**  
(c) 2009 The New York Times  
**File 475: Wall Street Journal Abs 1973-2009/Sep 08**  
(c) 2009 The New York Times  
**File 99: Wilson Appl. Sci & Tech Abs 1983-2009/Aug**  
(c) 2009 The HW Wilson Co.  
**File 256: TecTrends 1982-2009/Aug W5**  
(c) 2009 Info.Sources Inc. All rights res.  
**File 5: Biosis Previews(R) 1926-2010/Sep W1**  
(c) 2010 The Thomson Corporation  
**File 73: EMBASE 1974-2010/Sep 09**  
(c) 2010 Elsevier B.V.  
**File 155: MEDLINE(R) 1950-2010/Sep 07**  
(c) format only 2010 Dialog  
**File 34: SciSearch(R) Cited Ref Sci 1990-2010/Sep W1**  
(c) 2010 The Thomson Corp  
**File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec**  
(c) 2006 The Thomson Corp

Set	Items	Description
S1	1097519	(MEDICAL OR HEALTHCARE OR HEALTH()CARE OR PATIENT? ? OR HOSPITAL OR TELEMEDIC?) (3N) (FILE OR FILES OR RECORD OR RECORDS - OR FORM OR FORMS OR CHART OR CHARTS OR DOCUMENT? ? OR DATA OR DATAFILE? ? OR INFORMATION)
S2	57659	(ELECTRONIC? OR COMPUTERI?ED OR COMPUTER() (BASED OR IMPLEMENTED) OR AUTOMAT? OR DIGITAL? OR INTERACTIV?) (3N) S1
S3	2380	(ENCAPSULAT? OR COMPRESS? OR PACKAGE OR PACKAGED OR PACKAGING OR HIDING OR WRAPPING OR WRAPPED OR ENCASING OR ENCASED OR INCASING OR INCASED OR CAPSULIS? OR CAPSULIZ?) (5N) S1
S4	35990	(ENCRYPT? OR ENCOD? OR PROTECT? OR ENCIPHER? OR ENCYPHER? - OR CIPHER? OR CYPHER? OR SCRAMBL?) (4N) (ALGORITHM? OR FORMULA - OR FORMULAS OR FORMULAE OR FORMULATION OR RULE OR RULES OR PROCEDURE? ? OR INSTRUCTION? ? OR COMMAND? ?)
S5	184178	(UNIQUE? OR DISTINCT? OR CUSTOMI?E? ? OR SPECIFIC? OR DESIGNATED OR ASSIGNED OR DISTINGUISH? OR ASSIGN?) (3N) (VALUE OR NUMBER? OR CODE OR CODES OR CODING OR CODIFICATION OR KEY? ? OR IDENTIFIER? ? OR ID)
S6	65140	(ENTIRE OR ENTIRETY OR WHOLE OR WHOLLY OR COMPLETE OR COMPLETENESS OR FULL OR FULLY OR FULLNESS OR INTACT OR TOTAL OR TOTALITY OR UNDIVIDED OR UNIFIED OR ALL) (3N) S1
S7	1011590	(STRUCTUR? OR FORMAT? OR ARCHITECTURE OR CONSTRUCTION OR TYPE OR CONFIGURATION OR VERSION OR ARRANGEMENT OR FILETYPE? ? OR FILEFORMAT? ?) (5N) (DATA OR FILE OR FILES OR RECORD OR RECORDS OR DOCUMENT? ? OR CONTENT? ? OR INFORMATION)
S8	924641	(DETERMIN? OR DETECT? OR IDENTIF? OR RECOGNI? OR EXPOSE? ? OR EXPOSING OR SPOT? ? OR SPOTTING OR CATCH? OR MONITOR? OR TRACK? OR PREVENT? OR ALERT? OR WARN? OR REPORT? OR REVEAL? OR UNCOVER? OR PREVENT? OR NOTICE? ? OR NOTICING) (4N) (MODIF? OR - ALTERATION? ? OR ALTERING OR ALTERED OR TAMPER? OR CHANGE OR - CHANGES OR MANIPULAT? OR EDIT? ? OR EDITING OR EDITED)
S9	324	S2 AND S3
S10	4	S9 AND S4
S11	2	S9 AND S5
S12	15	S5 AND S6 AND S7

```

S13      0      S12 AND S4
S14     546     S2 AND S8
S15      1      S14 AND S3
S16      0      S14 AND S4
S17      5      S14 AND S5
S18     15      (S10 OR S11 OR S12 OR S15 OR S17) NOT PY>2001
S19     13      RD (unique items)
S20      8      S3 AND S5
S21     24      S3 AND S8
S22     28      S3 AND S4
S23     21      (S20 OR S21 OR S22) NOT (S19 OR PY>2001)
S24     20      RD (unique items)
S25     65      S1 (5N)ENCAPSULAT?
S26      1      S25 AND S4
S27      0      S25 AND S5
S28      1      S25 AND S8
S29      2      (S26 OR S28) NOT (S19 OR S24)
S30      2      RD (unique items)
S31    70518    AU=((AKERS, W? OR AKERS W? OR AKERS(2N)W?) OR (CANTERBURY,
J? OR CANTERBURY J? OR CANTERBURY(2N)J?) OR (MILLER, B? OR MI-
LLER B? OR MILLER(2N)B?) OR (WALKER, C? OR WALKER C? OR WALKER-
R(2N)C?) OR (KING, J? OR KING J? OR KING(2N)J?) OR (GRAVES, J?
OR GRAVES J? OR GRAVES(2N)J?) OR (PATTERSON, J? OR PATTERSON
J? OR PATTERSON(2N)J?) OR (NORMYLE, R? OR NORMYLE R? OR NORMY-
LE(2N)R?) OR (HALE, K? OR HALE K? OR HALE(2N)K?) OR (WATTS, B?
OR WATTS B? OR WATTS(2N)B?) OR (RAU, K? OR RAU K? OR RAU(2N)-
K?))
S32      0      S31 AND S9

```

19/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2: INSPEC

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07113550

**Title:** DICOM image integration into an electronic medical record using thin viewing clients

**Author(s):** Stewart, B.K.<sup>1</sup>; Langer, S.G.<sup>1</sup>; Taira, R.K.

**Affiliation(s):**

<sup>1</sup> Dept. of Radiol., Washington Univ., Seattle, WA, USA

**Journal:** Proceedings of the SPIE - The International Society for Optical Engineering , vol.3339 , pp.322-8

**Publisher:** SPIE-Int. Soc. Opt. Eng.

**Country of Publication:** USA

**Publication Date:** 1998

**Conference Title:** Medical Imaging 1998: PACS Design and Evaluation: Engineering and Clinical Issues

**Conference Date:** 24-26 Feb. 1998

**Conference Location:** San Diego, CA, USA

**Conference Sponsor:** SPIE

**ISSN:** 0277-786X

**ISSN Type:** print

**SICI:** 0277-786X(1998)3339L:322:DIII;1-5

**CODEN:** PSISDG

**U.S. Copyright Clearance Center Code:** 0277-786X/98/\$10.00

**Item Identifier (DOI):** [10.1117/12.319784](https://doi.org/10.1117/12.319784)

**Language:** English

**Subfile(s):** B (Electrical & Electronic Engineering); C (Computing & Control Engineering); E (Mechanical & Production Engineering)

**INSPEC Update Issue:** 1998-050

**Copyright:** 1998, IEE

**Title:** DICOM image integration into an electronic medical record using thin viewing clients

**Abstract:** Radiological DICOM images are being integrated into our currently existing Web-browsable **electronic medical record** (MINDscape). Our university has created a clinical data repository called MIND (Medical Information Networked Database), combining information from multiple departmental databases in a distributed relational... ..DICOM Web server from MINDscape, so that the radiology reports already resident in the MIND repository can be married with the associated images through the **unique** examination accession **number** generated by our radiology information system (RIS). The Web browser plug-in used provides a wavelet decompression engine and performs the following image manipulation functions...

**Descriptors:** biomedical communication; data **compression**; file servers; image coding; **information** resources; **medical** image processing; **medical information** systems; network computers; radiology; records management; telecommunication standards; telemedicine; wavelet transforms

**Identifiers:** DICOM image integration; MINDscape; thin viewing clients; radiological images; World Wide Web-browsable **electronic medical record**; clinical **data** repository; **Medical Information** Networked Database; departmental databases; distributed relational database; platform-independent Web browser; information resources; DICOM Web server; DICOM storage class provider; computed radiography; computed tomography; digital...

---

19/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2: INSPEC

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07080783

**Title:** Automatic coding of diagnostic reports

**Author(s):** de Bruijn, L.M.<sup>1</sup>; Hasman, A.<sup>1</sup>; Arends, J.W.

**Affiliation(s):**

<sup>1</sup> Dept. of Med. Inf., Maastricht Univ. , Netherlands

**Journal:** Methods of Information in Medicine , vol.37 , no.3 , pp.260-5

**Publisher:** F.K. Schattauer Verlagsgesellschaft

**Country of Publication:** Germany

**Publication Date:** Sept. 1998

**ISSN:** 0026-1270

**ISSN Type:** print

**SICI:** 0026-1270(199809)37:3L:260:ACDR;1-C

**CODEN:** MIMCAI

**U.S. Copyright Clearance Center Code:** 0026-1270/98/\$3.00

**Language:** English

**Subfile(s):** C (Computing & Control Engineering)

**INSPEC Update Issue:** 1998-045

**Copyright:** 1998, IEE

**Abstract:** A method is presented for **assigning** classification **codes** to pathology reports by searching for similar reports from an archive collection. The key for searching is textual similarity, which estimates the true semantic similarity...

**Descriptors:** classification; **full-text** databases; **medical** diagnostic computing; **medical information** systems; natural languages; nomenclature

**Identifiers:** automatic coding; diagnostic reports; classification **code assignment**; pathology reports; searching; archive collection; textual similarity; semantic similarity; natural language reporting; simulation; accuracy; document collection transfer; laboratories; organ classification; nomenclature; information storage; information retrieval

**International Patent Classification:**

19/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2: INSPEC

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05222457

**Title:** HIS at the University Hospital of Innsbruck

**Author(s):** Oberaigner, W.<sup>1</sup>; Neiss, A.; Lechleitner, G.; Schoner, W.; Kienel, C.

**Affiliation(s):**

<sup>1</sup> Innsbruck Univ. Hospital, Austria

**Book Title:** Hospital **Information** Systems: Scope-Design-**Architecture**. Proceedings of the IMIA Working Conference

**Inclusive Page Numbers:** 229

**Publisher:** North-Holland, Amsterdam

**Country of Publication:** Netherlands

**Publication Date:** 1992

**Conference Title:** Hospital Information Systems: Scope-Design-Architecture. IMIA Working Conference

**Conference Date:** 7-11 Sept. 1991

**Conference Location:** Gottingen, Germany

**Editor(s):** Bakker, A.R. Ehlers, C.Th. Bryant, J.R. Hammond, W.E.

**ISBN:** 0-444-89412-8

**Number of Pages:** xv+303

**Language:** English

**Subfile(s):** C (Computing & Control Engineering)

**INSPEC Update Issue:** 1992-038

**Copyright:** 1992, IEE

**Book Title:** Hospital **Information** Systems: Scope-Design-**Architecture**. Proceedings of the IMIA Working Conference

**Abstract:** ...integrated into a common HIS. Therefore, a conceptual framework for HIS at the university hospital is discussed. The objectives are to be able to link **patient data** over **all** departments and to support administration activities, medical documentation with connection to data analysis systems, and running affairs, e.g. ordering. The basic strategy is to support the need of departments by decentralized departmental systems and to provide for communication between these departmental systems by the mean of a **unique** patient and stay **ID**. In order to evaluate this concept, the authors implement two departmental systems for an ECG-department and for a surgery department, and a few extensions...

---

19/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2: INSPEC

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04636890

**Title:** Electrocardiographic data compression using preceding consecutive QRS information

**Author(s):** Hsia, P.-W.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> Dept. of Med., East Carolina Univ., Greenville, NC, USA

**Book Title:** Proceedings. Computers in Cardiology 1988 (Cat. No.88CH2733-4)

**Inclusive Page Numbers:** 465-8

**Publisher:** IEEE Comput. Soc. Press, Washington, DC

**Country of Publication:** USA

**Publication Date:** 1989

**Conference Title:** Computers in Cardiology 1988  
**Conference Date:** 25-28 Sept. 1988  
**Conference Location:** Washington, DC, USA  
**Conference Sponsor:** IEEE Nat. Inst. Health Eur. Soc. Cardiology  
**ISBN:** 0-8186-1949-X  
**U.S. Copyright Clearance Center Code:** 0276-6574/89/0000-0465\$01.00  
**Item Identifier (DOI):** [10.1109/CIC.1988.72661](https://doi.org/10.1109/CIC.1988.72661)  
**Number of Pages:** xx+594  
**Language:** English  
**Subfile(s):** A (Physics); B (Electrical & Electronic Engineering); C (Computing & Control Engineering)  
**INSPEC Update Issue:** 1990-012  
**Copyright:** 1990, IEE  
**Descriptors:** computerised signal processing; **data compression**; electrocardiography; **medical** computing; microcomputer applications  
**Identifiers:** personal-computer-based system; ECG data compression; preceding consecutive QRS information; linear predictor; Huffman probability code; **algorithm**; noiseless **encoding**

---

19/3,K/5 (Item 5 from file: 2)  
DIALOG(R)File 2: INSPEC  
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04482457

**Title:** Comparison of information-preserving and information-losing data-compression algorithms for CT images

**Author(s):** Bramble, J.M.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> Dept. of Diagnostic Radiol., Kansas Univ., KS, USA

**Journal:** Radiology , vol.170 , no.2 , pp.453-5

**Country of Publication:** USA

**Publication Date:** Feb. 1989

**ISSN:** 0033-8419

**ISSN Type:** print

**CODEN:** RADLAX

**Language:** English

**Subfile(s):** A (Physics); B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

**INSPEC Update Issue:** 1989-022

**Copyright:** 1989, IEE

**Abstract:** Two algorithms for data compression are compared in application to computed tomographic (CT) images. The first, an information-preserving **algorithm** combining differential and Huffman **encoding**, allows reconstruction of the original image. A second algorithm alters the image in a clinically acceptable manner. This second algorithm combines two processes: the suppression...

**Descriptors:** computerised picture processing; **computerised** tomography; **data compression**; encoding; **medical** diagnostic computing

**Identifiers:** computerised tomography images; differential **encoding**; data-compression **algorithms**; information-preserving **algorithm** ; Huffman **encoding**; information-losing **algorithm**

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19/3,K/6 (Item 6 from file: 2)  
DIALOG(R)File 2: INSPEC  
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04104872

**Title:** Database for a special-function clinical laboratory in biochemical genetics

**Author(s):** Ward, J.C.<sup>1</sup>; Rieck, C.M.<sup>1</sup>; Rivas, M.L.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> Dept. of Pediatrics, Tennessee Univ., Memphis, TN, USA

**Book Title:** Proceedings of the Eleventh Annual Symposium on Computer Applications in Medical Care (Cat. No.87CH2446-3)

**Inclusive Page Numbers:** 379-83

**Publisher:** IEEE, New York, NY

**Country of Publication:** USA

**Publication Date:** 1987

**Conference Title:** Eleventh Annual Symposium on Computer Applications in Medical Care

**Conference Date:** 1-4 Nov. 1987

**Conference Location:** Washington, DC, USA

**Conference Sponsor:** IEEE George Washington Univ. Med. Center Alliance Continuing Med. Educ. et al

**Editor(s):** Stead, W.W.

**ISBN:** 0-8186-0812-9

**U.S. Copyright Clearance Center Code:** 0195-4210/87/0000-0379\$01.00

**Number of Pages:** xix+884

**Language:** English

**Subfile(s):** C (Computing & Control Engineering)

**INSPEC Update Issue:** 1988-009

**Copyright:** 1988, IEE

**Abstract:** ...drive. Separate linked data entry files have been created for patient information, specimen information, and 12 other unique test categories. Files are linked by a **unique specimen number**. **Information** entered in the **patient** and specimen **files** are **automatically** translated into the same fields in the data files without duplication of effort. Menus for special programs, such as billing, are created for **manipulating** stored data. A separate **report** -form program for each test allows custom designed reports from existing data in the test files.

---

19/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2: INSPEC

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03702882

**Title:** Integration of word processing with an anatomic pathology information system

**Author(s):** Sharkey, F.E.<sup>1</sup>; Bej, M.D.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> M.S. Hershey Coll. of Med., Pennsylvania State Univ., PA, USA

**Book Title:** Proceedings of the Ninth Annual Symposium on Computer Applications in Medical Care (Cat. No.85CH2227-7)

**Inclusive Page Numbers:** 469-73

**Publisher:** IEEE Comput. Soc. Press, Washington, DC

**Country of Publication:** USA

**Publication Date:** 1985

**Conference Title:** Ninth Annual Symposium on Computer Applications in Medical Care

**Conference Date:** 10-13 Nov. 1985

**Conference Location:** Baltimore, MD, USA

**Conference Sponsor:** IEEE

**Editor(s):** Ackerman, M.J.

**ISBN:** 0-8186-0647-9

**U.S. Copyright Clearance Center Code:** 0195-4210/85/0000-0469\$01.00

**Number of Pages:** xix+913

**Language:** English

**Subfile(s):** C (Computing & Control Engineering)

**INSPEC Update Issue:** 1986-015

**Copyright:** 1986, IEE

**Abstract:** ...on Snomed coding of diagnoses. Both software packages are written in standard MUMPS and run on DEC PDP-11 equipment. The APD software initializes and **formats** the word-processor **document**, and forms the document header and trailer from **patient data on file**. The diagnoses from **all** prior pathology reports are automatically inserted into the body of the report. Specimens gross descriptions can be entered as plain or as 'canned' text. Diagnoses are entered by selecting from an extensive online dictionary or as plain text; if the former, matching Snomed **codes** are **assigned**, thus automating the **coding** process. The integration of these two systems has led to considerable time savings in the office environment.

---

19/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2: INSPEC

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02137980

**Title:** The development of a 'second generation' ECG monitoring system

**Author(s):** Sanders, W.J.<sup>1</sup>; Alderman, E.L.<sup>1</sup>; Harrison, D.C.<sup>1</sup>; Dillman, R.

**Affiliation(s):**

<sup>1</sup> Cardiology Div., Stanford Univ. School of Medicine, Stanford, CA, USA

**Book Title:** Proceedings of the IFIP TC 4 working conference on trends in computer-processed electrocardiograms

**Inclusive Page Numbers:** 21-30

**Publisher:** North-Holland, Amsterdam

**Country of Publication:** Netherlands

**Publication Date:** 1977

**Conference Title:** IFIP TC 4 working conference on trends in computer-processed electrocardiograms

**Conference Date:** 3-5 Nov. 1976

**Conference Location:** Amsterdam, Netherlands

**Conference Sponsor:** Comm. European Communities Netherland Heart Found. et al

**Editor(s):** Van Bommel, J.H. Willems, J.L.

**ISBN:** 0-7204-0723-0

**Number of Pages:** xii+431

**Language:** English

**Subfile(s):** A (Physics); B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

**INSPEC Update Issue:** 1978-001

**Copyright:** 1978, IEE

**Abstract:** ...was to develop a computerized arrhythmia monitoring system that would detect and quantify the arrhythmias most commonly found in a coronary care unit and would **alert** medical personnel to significant **changes** in patient status. It was intended that the system be capable of monitoring up to 16 patients simultaneously, that it be practical for use in...

**Descriptors:** **computerised** monitoring; **data compression**; electrocardiography; **patient** monitoring

---

19/3,K/9 (Item 1 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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09146950 **Biosis No.:** 198885115841

**STRUCTURE AND SOFTWARE TOOLS OF AIDA**

**Author:** DUISTERHOUT J S (Reprint); FRANKEN B; WITTE F  
**Author Address:** AIDA GROUP, DEP MED INFORMATICS, ERASMUS UNIV, PO BOX 1738, 3000 DR ROTTERDAM, NETH\*\*NETHERLANDS  
**Journal:** Computer Methods and Programs in Biomedicine 25 ( 3 ): p 259-274 1987  
**ISSN:** 0169-2607  
**Document Type:** Article  
**Record Type:** Abstract  
**Language:** ENGLISH

**Abstract:** AIDA consists of a set of software tools to allow for fast development and easy-to-maintain **Medical Information Systems**. AIDA supports **all** aspects of such a system both during development and operation. It contains tools to build and maintain forms for interactive data entry and on-line... ..between user-defined data validation checks or other user-defined code and the AIDA tools. AIDA has been designed primarily for prototyping and for the **construction** of **Medical information Systems** in a research environment which requires a flexible approach. The prototyping facility of AIDA operates terminal independent and is even to a great extent... ..flexible code from these table definitions. By separating the AIDA software in a source and a run-time version, one is able to write implementation-**specific code** which can be selected and loaded by a special source loader, being part of the AIDA software. This feature is also accessible for maintaining software...

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19/3,K/10 (Item 1 from file: 73)

DIALOG(R)File 73: EMBASE

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0075076587 **EMBASE/MEDLINE No:** 1992228260

**Productivity methods and measurement standards in medical transcription: A study of Alabama hospitals**

Sanders V.S.; Bamberg R.; Grostick S.

Division of Health Information Mgmt., School of Health Related Professions, University of Alabama, Birmingham, AL, United States

**Corresp. Author/Affil:** Sanders V.S.: Division of Health Information Mgmt., School of Health Related Professions, University of Alabama, Birmingham, AL, United States

Journal of the American Health Information Management Association ( J. AM. HEALTH INF. MANAGE. ASSOC. ) ( United States ) August 7, 1992 , 63/7 (71-74)

**CODEN:** JAHIE **ISSN:** 0273-9976

**Document Type:** Journal ; Article **Record Type:** Abstract

**Language:** English **Summary language:** English

...hospitals, even in relationship to the number of lines required per day with a range of 60 to 90 characters per line being reported. Practically **all** of the medical **record** departments responding preferred elite **type** (12 spaces per inch) as opposed to pica type (10 spaces per inch). The extraneous factors that most affected the determination of a daily productivity... ..transcriptionists required to complete 80 or 90 minutes per day also performed other clerical duties. Approximately two-thirds of the transcriptionists required to produce a **specific number** of lines per day were required to perform other duties. Two other factors cited were time given for meetings/in-services and consideration when transcription...

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19/3,K/11 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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13108783 **PMID:** 10338786

**Issues in identification and linkage of patient records across an integrated delivery system.**



Arellano M G; Weber G I

Advanced Linkage Technologies of America, Inc., USA.

Journal of healthcare information management - JHIM ( UNITED STATES ) Fall 1998 , 12 (3) p43-52 , ISSN: 1099-811X--Print 1099-811X--Linking **Journal Code:** 9815773

Publishing Model Print

**Document type:** Journal Article

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

Historically, the health information systems community has viewed linking personal records as a mundane task. The oversimplified view that routine database **manipulation** can accurately **identify** multiple records for a single individual is erroneous, an assumption based on a misperception of the quality of the underlying data. Such data have been... ..multiple facility linkage evaluation to identify more than two medical record numbers for the same patient, and the primary goal of an EPI is to **assign a unique identifier** for the patient which will link that patient's multiple files, it becomes necessary to develop a means of readily associating three or more records... ..with great success is to assign a common, sequential identification number to all linked medical record numbers for the same patient regardless of facility. The **assignment** of linkage identification **numbers** is computer-intensive and is generally accomplished with a highly iterative process. Both system memory and hard disk resources are fully tested as the number... ..in the enterprise system. As in the identification of the underlying linkage pairs, the development of a confidence measure greatly facilitates the assignment of the **unique** identification **numbers** needed in the EPI implementation. (

**Descriptors:** ; Algorithms; **Data** Collection; Humans; **Medical Records** Systems, **Computerized**--standards--ST; United States

**Named Person:**

---

19/3,K/12 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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11859889 **PMID:** 18193784

**[Program package for data follow-up about patients with implanted hip endoprosthesis]**

"Paket" programa za pracenje podataka o bolesnicima s endoprotezom zglobova kuka.

Dejkovic D; Bozovic Z; Pejnovic P

Srpski arhiv za celokupno lekarstvo ( Serbia ) Sep 1995 , 123 Suppl 2 p35-7 , ISSN: 0370-8179--Print 0370-8179--Linking **Journal Code:** 0027440

Publishing Model Print

**Document type:** English Abstract; Journal Article

**Languages:** SERBIAN

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

**[Program package for data follow-up about patients with implanted hip endoprosthesis]**

Modular program **package** for forming and analysis of **data** about **patients** with implanted hip endoprosthesis in Special Hospital for Orthopedics Surgery "Banjica" Belgrade was designed and realized. This program package could be one module of information... ..identification data, anamnestic and findings data, operative and postoperative data, rehabilitation, and results of periodical controls. The key for patient identification in different bases in **unique** TPK- **number**-patient **number** in protocol. By using data from data base, this package allows search, relation establishment, and statistical analyses. It is possible to evaluate TPK-questionnaire, and... (

**Descriptors:** \*Arthroplasty, Replacement, Hip; \*Databases, Factual; \***Medical Records** Systems, **Computerized**; \*Software

---

19/3,K/13 (Item 3 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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10292760 PMID: 1563266 Record Identifier: 073892; 00212421

**Patient-number-based computerized medical records in Crete. A tool for planning and assessment of primary health care.**

Isacsson A; Koutis A D; Cedervall M; Lindholm L H; Lionis C D; Svenninger K ; Fioretos M

Health Sciences Centre, Lund University, Dalby, Sweden.

Computer methods and programs in biomedicine ( NETHERLANDS ) Feb 1992 , 37 (1) p41-9 , ISSN: 0169-2607--Print 0169-2607--Linking Journal Code: 8506513

Publishing Model Print TJ: COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE.

**Document type:** Journal Article; Research Support, Non-U.S. Gov't

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Other Citation Owner:** PIP; POP

**Abstract Source:** PIP

**Record type:** MEDLINE; Completed

**Patient-number-based computerized medical records in Crete. A tool for planning and assessment of primary health care.**

...developed according to local needs during 1989, when also a Greek version of the statistical system, "DoIt", was installed. The main reasons for establishing a **computerized medical information** system were (i) to assess the health needs in Crete, (ii) to monitor activities of the primary health care organizations, and (iii) to introduce epidemiological research into primary health care in Greece. The information system was based on specially **assigned patient numbers** containing several pieces of information about the individual; the system was developed at the Dalby Health Sciences Centre in Sweden. Each month, data were extracted... (

...Department of Family and Social Medicine at the Crete University in Heraklion entered a collaborative agreement in December 1987 which involved the development of a **computerized patient information** system for primary **health care** (PHC) in Crete. In 1988, computer programmers installed the case record system "Egin0" on a personal computer at the University of Heraklion and at the... ..the use of PHC and attitudes and behavior of patients. Health center workers in Spili have continuously assessed the system. Immediate feedback has resulted in **identifying** needs for training and **modifications** of procedures. The "Egin0" and "DoIt" systems have also allowed researchers to analyze aggregate data. The success of these systems have resulted in their implementation...

**Tags:**

**Descriptors:** \*Medical Records Systems, **Computerized**--standards--ST; \*Primary **Health Care**--statistics and numerical **data** --SN ; Adolescent; Adult; Aged; Child; Child, Preschool; Epidemiologic Methods; Greece; Health Planning; Health Services Needs and Demand; Health Services Research; Humans; Infant; Infant, Newborn; **Medical Records** Systems, **Computerized**--utilization--UT; Middle Aged; Primary Health Care--standards--ST

**Named Person:**

---

24/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2: INSPEC

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07868367

**Title:** Proposal for a combination of compression and encryption

**Author(s):** Vorwerk, L.<sup>1</sup>; Engel, T.<sup>1</sup>; Meinel, C.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> Inst. of Telematics, Trier, Germany

**Journal:** Proceedings of the SPIE - The International Society for Optical Engineering , pp.694-702

**Publisher:** SPIE-Int. Soc. Opt. Eng.

**Country of Publication:** USA

**Publication Date:** 2000

**Conference Title:** Visual Communications and Image Processing 2000

**Conference Date:** 20-23 June 2000

**Conference Location:** Perth, WA, Australia

**Conference Sponsor:** SPIE Univ. Western Australia Inst.. Eng. Australia Soc. Imaging Sci, & Technol. IEEE

**ISSN:** 0277-786X

**ISSN Type:** print

**SICI:** 0277-786X(2000)4067:1/3L.694:PCCE;1-T

**CODEN:** PSISDG

**U.S. Copyright Clearance Center Code:** 0277-786X/2000/\$15.00

**Item Identifier (DOI):** [10.1117/12.386559](https://doi.org/10.1117/12.386559)

**Language:** English

**Subfile(s):** B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

**INSPEC Update Issue:** 2001-011

**Copyright:** 2001, IEE

**Abstract:** This paper describes how to integrate **encryption** in an **algorithm** which uses wavelets to compress data. Wavelets are more useful in image compression than other methods. This is because the definition about which data should...

**Descriptors:** cryptography; **data compression**; image coding; **telemedicine**; transform coding; visual communication; wavelet transforms

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24/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2: INSPEC

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06842994

**Title:** Sampling and compression of biomedical signals from point of view of telemedicine

**Author(s):** Vysoky, P.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> Fac. of Electr. Eng., Czech Tech. Univ., Prague, Czech Republic

**Book Title:** Information Technology Applications in Biomedicine. ITAB '97. Proceedings of the IEEE Engineering in Medicine and Biology Society Region 8 International Conference (Cat.No.97TH8342)

**Inclusive Page Numbers:** 52-3

**Publisher:** IEEE, New York, NY

**Country of Publication:** USA

**Publication Date:** 1997

**Conference Title:** Information Technology Applications in Biomedicine. ITAB '97. Proceedings of the IEEE Engineering in Medicine and Biology Society Region 8 International Conference

**Conference Date:** 7-9 Sept. 1997

**Conference Location:** Prague, Czech Republic

**Conference Sponsor:** IEEE Eng. Med. & Biology Soc

**Editor(s):** Eck, V. Krekule, I.

**ISBN:** 0-7803-4318-2

**Item Identifier (DOI):** [10.1109/ITAB.1997.649400](https://doi.org/10.1109/ITAB.1997.649400)

**Number of Pages:** 114

**Language:** English

**Subfile(s):** B (Electrical & Electronic Engineering); C (Computing & Control Engineering)

**INSPEC Update Issue:** 1998-008

**Copyright:** 1998, IEE

**Abstract:** An optimal sampling frequency is generally a compromise between the endeavour to **catch** all dynamical **changes** of a signal and not having any redundant samples. This problem has not been completely solved for crisp metric variables, and very little is known...

**Descriptors:** **data compression**; **medical** signal processing; signal sampling

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24/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2: INSPEC

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06729692

**Title:** **Coding and visualization of 3D medical data for low bitrate communication**

**Author(s):** Malassiotis, S.<sup>1</sup>; Sahinoglou, H.<sup>1</sup>; Strintsiz, M.G.<sup>1</sup>

**Affiliation(s):**

<sup>1</sup> Inf. Process. Lab., Thessaloniki Univ., Greece

**Book Title:** CAR '96 Computer Assisted Radiology. Proceedings of the International Symposium on Computer and Communication Systems for Image Guided Diagnosis and Therapy

**Inclusive Page Numbers:** 484-9

**Publisher:** Elsevier, Amsterdam

**Country of Publication:** Netherlands

**Publication Date:** 1996

**Conference Title:** Proceedings of CAR'96: Computer Assisted Radiology-10th International Symposium

**Conference Date:** June 1996

**Conference Location:** Paris, France

**Editor(s):** Lemke, H.U. Vannier, M.W. Inamura, K. Farman, A.G.

**ISBN:** 0-444-82497-9

**Number of Pages:** xxxv+1112

**Language:** English

**Subfile(s):** C (Computing & Control Engineering)

**INSPEC Update Issue:** 1997-042

**Copyright:** 1997, IEE

**Abstract:** ...through low capacity networks requires efficient data compression. In this paper, a combination of lossy and lossless 3D pyramid compression schemes is developed. The HSP **algorithm** is used for lossy **encoding** and the hierarchical interpolation (HINT) technique is used to encode the resulting error image. Visualization of 3D medical images is also considered in this paper...

**Identifiers:** 3D medical data visualization; image coding; low bitrate communication ; three-dimensional **medical data** storage; **data** communication; **medical** imaging; low capacity networks; data **compression**; lossy scheme; lossless scheme; 3D pyramid compression schemes; HSP algorithm; hierarchical interpolation; HINT technique; error image; volume rendering algorithm

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30/9,K/2 (Item 2 from file: 2)

DIALOG(R)File 2: INSPEC

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09384511

**Title:** **Protecting medical data for decision-making analyses**

**Author(s):** Brumen, B.<sup>1</sup>; Welzer, T.<sup>1</sup>; Druzovec, M.; Golob, I.; Jaakkola, H.; Rozman, I.; Kubalik, J.

**Affiliation(s):**

<sup>1</sup> Fac. of Electr. Eng. & Comput. Sci., Maribor Univ., Slovenia

**Journal:** Journal of Medical Systems , vol.29 , no.1 , pp.65-80

**Publisher:** Kluwer Academic/Plenum Publishers

**Country of Publication:** USA

**Publication Date:** Feb. 2005

**ISSN:** 0148-5598

**ISSN Type:** print

**SICI:** 0148-5598(200502)29:1L:65:PMDD;1-3

**CODEN:** JMSYDA

**Item Identifier (DOI):** [10.1007/s10916-005-1105-z](https://doi.org/10.1007/s10916-005-1105-z)

**Language:** English

**Document Type:** Journal Paper (JP)

**Treatment:** General or Review (G)

**Abstract:** In this paper, we present a **procedure** for data **protection**, which can be applied before any model building based analyses are performed. In medical environments, abundant data exist, but because of the lack of knowledge, they are rarely analyzed, although they hide valuable and often life-saving knowledge. To be able to analyze the data, the analyst needs to have a full access to the relevant sources, but this may be in the direct contradiction with the demand that data remain secure, and more importantly in medical area, private. This is especially the case if the data analyst is outsourced and not directly affiliated, with the data owner. We address this issue and propose a solution where the model-building process is still possible while data are better protected. We consider the case where the distributions of original data values are preserved while the values themselves change, so that the resulting model is equivalent to the one built with original data. ( 27 refs.)

**Subfile(s):** C (Computing & Control Engineering)

**Descriptors:** data analysis; data **encapsulation**; data mining; data privacy; **medical information** systems; security of data

**Identifiers:** medical data protection; decision-making analyses; model building based analyses; lack of knowledge; life-saving knowledge; data security; data mining; data analysis; disclosure control

**Classification Codes:** C7330 (Biology and medical computing); C7140 (Medical administration); C6130S (Data security)

**International Patent Classification:**

G06F-0019/00 (Digital computing or data processing equipment or methods, specially adapted for specific applications)

G06F-0021/00 (Security arrangements for protecting computers or computer systems against unauthorised activity)

G06Q-0050/00 (Systems or methods specially adapted for a specific business sector, e.g. health care, utilities, tourism or legal services)

**INSPEC Update Issue:** 2005-017

**Copyright:** 2005, IEE

**Abstract:** In this paper, we present a **procedure** for data **protection**, which can be applied before any model building based analyses are performed. In medical environments, abundant data exist, but because of the lack of knowledge...

**Descriptors:** data analysis; data **encapsulation**; data mining; data privacy; **medical information** systems; security of data

## B. NPL Files, Full-text

**File 15:ABI/Inform(R) 1971-2009/Sep 07**  
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**File 148:Gale Group Trade & Industry DB 1976-2009/Aug 20**  
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**File 149:TGG Health&Wellness DB(SM) 1976-2010/Sep W1**  
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**File 130:PHIND(Daily & Current) 2010/Sep 08**  
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S4	768	(ENCRYPT? OR ENCOD? OR PROTECT? OR ENCIPHER? OR ENCYIPHER? - OR CIPHER? OR CYPHER? OR SCRAMBL?)(4N)(ALGORITHM? OR FORMULA - OR FORMULAS OR FORMULAE OR FORMULATION OR RULE OR RULES OR PROCEDURE? ? OR INSTRUCTION? ? OR COMMAND? ?)
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S9 0 S3 (20N) S4

S10 9 S3 (F) S4

S11 27 S3 (F) S5

S12 13 S11 (F) S6

S13 3 S12 (20N) S7

S14 0 S3 (30N) S8

S15 1 S3 (S) S8

S16 241 S2 (20N) S8

S17 0 S16 (20N) (S3 OR S4)

S18 0 S16 (20N) S5

S19 62 S2 (5N) S8

S20 5 S19 (20N) (ENCAPSULAT? OR COMPRESS? OR PACKAGE OR PACKAGED OR PACKAGING OR HIDING OR WRAPPING OR WRAPPED OR ENCASING OR ENCASED OR INCASING OR INCASED OR CAPSULIS? OR CAPSULIZ? OR ENCRYPT?)

S21 330 S6 (5N) S7

S22 0 S5 (10N) S21

S23 0 S4 (20N) S21

S24 0 S3 (20N) S21

S25 8 (S10 OR S13 OR S15 OR S20) NOT PY>2001

S26 4 RD (unique items)

S27 40 (S11 OR S19) NOT (S26 OR PY>2001)

S28 25 RD (unique items)

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S30 0 S29 AND S3

26/3,K/1 (Item 1 from file: 621)

DIALOG(R)File 621: Gale Group New Prod.Annou.(R)

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02658771 **Supplier Number:** 65494142 (USE FORMAT 7 FOR FULLTEXT)

**Lanier Announces Groundbreaking e-Healthcare Solutions.**

PR Newswire , p NA

Sept 25 , 2000

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 693

-

...standard X.509 digital certificates, whether they are issued and validated in-house or by a third party certificate authority. Documents accessed across networks are **encrypted** based on the public

key/private key combination. A **digital** signature applied to **medical documents** will **prevent alteration** to the document contents and the signature itself, helping the customer to meet the strictest security aspects of HIPAA. Extensive audit trails, automatic log-off...

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26/3,K/2 (Item 2 from file: 621)

DIALOG(R)File 621: Gale Group New Prod.Annou.(R)

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01023067 **Supplier Number:** 39710746 (USE FORMAT 7 FOR FULLTEXT)

**3M INTRODUCES PC MULTI-FUNCTION RECORD MANAGEMENT SYSTEM**

PR Newswire , p N/A

March 6 , 1986

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 455

-

...patient number assignments  
without duplicating. Phonetic name search capability, hospital specific data, physician look-up and cross-checking are other features.

Abstracting - Collects admission-specific **data**. Abstracting **formats**

may be chosen from UHDDS and others.

Codefinder and DRGfinder - Provide hospitals with complete, accurate ICD-9-CM **codes** and DRG **assignment**  
which translate into the most appropriate reimbursement possible for each patient.  
Chart Management - Replaces manual methods of monitoring chart deficiencies and tracking chart location.

Reporting...

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26/3,K/3 (Item 1 from file: 148)

DIALOG(R)File 148: Gale Group Trade & Industry DB

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06508345 **Supplier Number:** 14377027 (USE FORMAT 7 OR 9 FOR FULL TEXT )

**Use facts, not probability, to design benefits. (includes related articles)**

Caudron, Shari

Personnel Journal , v72 , n4 , p136(11)

April , 1993

ISSN: 0031-5745

**Language:** ENGLISH

**Record Type:** FULLTEXT; ABSTRACT

**Word Count:** 4454 **Line Count:** 00358

...that directly address rising health costs.

With solid information about the impact of one benefit program on



another, companies can begin to manage their overall **health-care package** proactively. **Data** on the cost and success of individual programs are essential, but integrated health data are much more valuable. As Dr. Bisgard says, "The whole is...

...with employee and retiree health claims information from a third-party administrator, are sent to Electronic Data Systems (EDS) in San Francisco, which uses an **algorithm** to **scramble** employee Social Security

---

26/3,K/4 (Item 1 from file: 149)

DIALOG(R)File 149: TGG Health&Wellness DB(SM)

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01374326 **Supplier Number:** 12940720 (USE FORMAT 7 OR 9 FOR FULL TEXT )

**The computer-based medical record: current status.**

Ornstein, Steven M.; Oates, Randall B.; Fox, Gary N.

Journal of Family Practice , v35 , n5 , p556(10)

Nov ,

1992

**Publication Format:** Magazine/Journal

ISSN: 0094-3509

**Language:** English

**Record Type:** Fulltext **Target Audience:** Professional

**Word Count:** 6868 **Line Count:** 00570

...to improve the care of both individual patients and populations and, concurrently, to reduce waste through continuous quality improvement." [2(p1)]

The report highlighted a **number** of **specific** problems with paper records that were remediable with electronic records. The current medical **record** is insufficient in **content**, **format**, accuracy, and accessibility to allow determination of health care effectiveness and outcomes. Because health expenditures comprise about 13% of the gross national product, lack of...

---

28/3,K/2 (Item 1 from file: 9)

DIALOG(R)File 9: Business & Industry(R)

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02286359 **Supplier Number:** 25868682 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Medical records to go global**

( **Defense Dept lets 6-yr, \$7.3 mil contract to Vasco Data Security, which will use various products for Military Health System** )

Government Computer News , v 19 , n 30 , p 33

October 16, 2000

**Document Type:** Journal **ISSN:** 0738-4300 ( United States )

**Language:** English **Record Type:** Fulltext

**Word Count:** 641 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...that do not affect a user's international access, he said.

A secure enterprisewide Single Sign-On process will increase systemwide productivity, he said. Using **digital** signatures will protect **data** and link **patient records** to **track** anyone who accesses or **modifies** medical documents, Allen said.

---

28/3,K/17 (Item 2 from file: 16)

DIALOG(R)File 16: Gale Group PROMT(R)

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01707231 **Supplier Number: 42129079 (USE FORMAT 7 FOR FULLTEXT)**

**Red tape, antiquated laws keep computerized records on shaky legal ground**

Modern Healthcare , p 27

June 3 , 1991

**Language:** English **Record Type:** Fulltext

**Document Type:** Magazine/Journal ; Professional

**Word Count:** 1562

-

...the concerns of its insurance company, the 251-bed hospital will hang on to the paper charts for two years, said Marie Barbetta, director of **medical records**. "We're **hiding** them," she said.

There are three aspects to computerizing medical records: the creation of an electronic "original"; the use of computerized signatures for authentication; and...

...processing systems is an original written record."

Oregon has the most inclusive "computer signature" rule. It allows physicians to sign orders and diagnoses with any "**unique identifier**," including fingerprints. Such advanced identification technologies now cost thousands of dollars per unit and are beyond the economic reach of hospitals, but when prices fall...

---

28/3,K/22 (Item 3 from file: 20)

DIALOG(R)File 20: Dialog Global Reporter

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13857453 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**

**Strong medicine for an ailing system: Health-care software**

CLAIRE TREMBLAY

FINANCIAL POST , p 01

November 20, 2000

**Journal Code:** FFP **Language:** English **Record Type:** FULLTEXT

**Word Count:** 535

**(USE FORMAT 7 OR 9 FOR FULLTEXT)**

...all transactions within their organization. The Act has prompted new

U.S. interest in Mainsource. A "versioning" feature of the software allows health administrators to **track changes** to **electronic medical records** by viewing earlier versions of the document.

Mainsource is due to sign a major deal in the U.S., Dr. Skinner says, although he cannot...

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DIALOG(R)File 149: TGG Health&Wellness DB(SM)

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01724640 **Supplier Number:** 19865003 (USE FORMAT 7 OR 9 FOR FULL TEXT )

**Confidentiality and electronic medical records.**

Miya, Pamela A.; Megel, Mary E.

MedSurg Nursing , v6 , n4 , p222(3)

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...security threats such as "hackers," procedures needed for recovery of data, and maintaining data integrity (Romano, 1987). Access involves determining justified entree to patient data, **alteration** and correction of data. **Monitoring** of access to **electronic patient records** can be accomplished through audit trails as well as other means. Particular care must be taken with data involving sensitive areas such as diagnoses regarding...

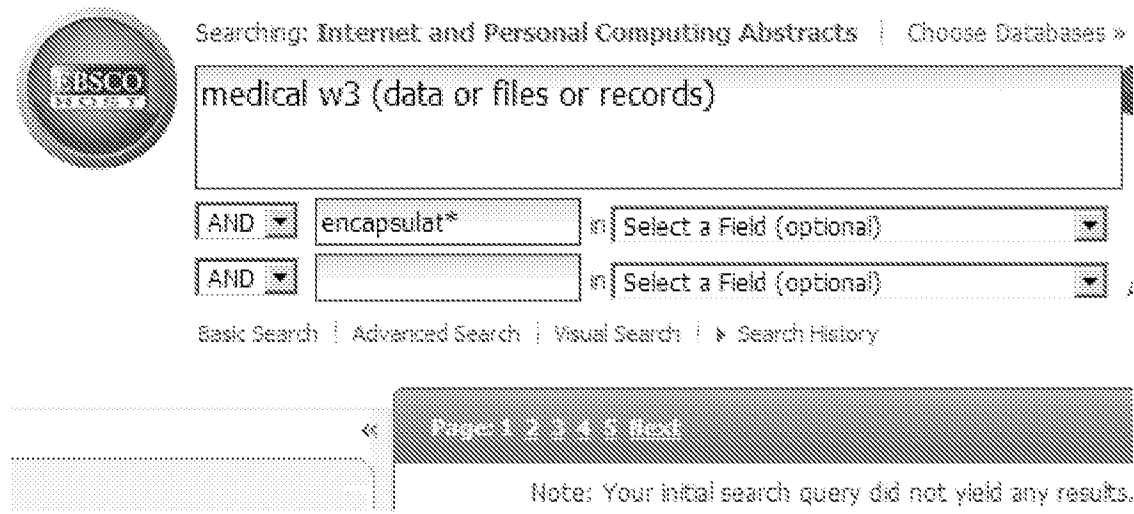
## **V. Additional Resources Searched**

### **Financial Times Via ProQuest**

**No documents found for:** (((*medical or healthcare or "health care" or patient*) w/3 (*data or files or records*)) w/5 *encapsulat\**) AND PMID(32326) AND PDN(<5/9/2001)

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### **Internet and Personal Computing Abstracts Via EBSCOhost**

A screenshot of the EBSCOhost search interface. At the top left is the EBSCO logo. To its right, the text "Searching: Internet and Personal Computing Abstracts" is displayed, followed by a link "Choose Databases >". Below this is a large search input box containing the text "medical w3 (data or files or records)". Underneath the search box are two rows of search criteria. The first row shows "AND" in a dropdown menu, followed by the text "encapsulat\*" in an input box, and then "in" followed by a dropdown menu showing "Select a Field (optional)". The second row is identical but the input box is empty. Below these are links for "Basic Search", "Advanced Search", "Visual Search", and "Search History". At the bottom, there is a pagination bar with "Page: 1 2 3 4 5 Next" and a note: "Note: Your initial search query did not yield any results."

### **Google Patents**

**Search:** encapsulated medical data files

#### **Method and system for maintaining and updating computerized medical records**

A distributed database architecture stores medical information in a self-updating system that employs point-of-service stations disposed at convenient medical service locations. Each patient carries a portable data carrier such as a smart card that contains the patient's complete medical history....

**Inventors:** James L. McGauley, Christopher Krumme

**Assignees:** Medcard Systems, Inc.

**Primary Examiner:** Charles L. Rones

**Patent number:** 5899998

**Filing date:** Aug 31, 1995

**Issue date:** May 4, 1999

What is claimed is:

1. A computer system for maintaining the currency of data in distributed databases, comprising:

- a data communication network;
- a plurality of physically separate databases, each of said databases including means for communicating with said data communication network, said databases collectively defining said distributed databases;
- a processor having interface for supplying an input instruction to modify the contents of the distributed databases;
- said processor being coupled to said data communication network;
- said processor being operable to generate an update object in response to said instruction and to place said update object in said data communication network;
- said update object having a self-contained processing tag for causing said update object to be intelligently routed along said data communication network to at least one of said plurality of databases and for causing said one of said plurality of databases to automatically modify its contents in accordance with said input instruction;
- said update object further having an object-oriented data structure that defines independently created field objects and record objects, said field objects and said record objects each having stored attributes that record information about processes performed on those objects;
- said data structure encapsulating data for storing information independent of said distributed databases, said data structure defining a nested, hierarchical relationship such that said field objects are encapsulated within said record objects and wherein said record objects are encapsulated within said update object;
- said update object thereby being configured to automatically store data and to automatically store in said attributes an historic record of processes performed on said data as said update object is routed anywhere throughout said communication network.

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### **Personal information security and exchange tool**

Utilization of the E-Metro Community and Personal Information Agents assure an effective and comprehensive agent-rule based command and control of informational assets in a networked computer environment. The concerns of informational privacy and informational self-determination are addressed...

**Inventors:** Kevin O'Neil, Glenn R. Seidman

**Assignee:** Cyva Research Corporation

**Primary Examiner:** Raquel Alvarez

**Patent number:** 5987440

**Filing date:** Jul 22, 1997

**Issue date:** Nov 16, 1999

What is claimed is:

1. An electronic bazaar for the purpose of facilitating electronic commerce by auction comprising:

- an electronic bazaar electronic broker which securely processes a transaction to ensure that rules are satisfied before a transaction is processed;

an electronic personal information agent which securely encapsulates entities' personal information objects and rules governing processing;  
a commercial activity dispatcher which handles all incoming transaction requests with said electronic bazaar electronic broker;  
a public product database which persistently stores product information processed by said electronic bazaar electronic broker;  
a trusted token processor which stores and processes public keys from said electronic personal information agents and issues and validates trusted tokens presented by said electronic personal information agents;  
an advertiser directory which stores and processes orders, product information and order forms as initiated by transaction requests; and  
a private activities database which stores advertiser pending orders, inventories, and information necessary to carry out transactions.

2. An electronic bazaar as in claim 1 which operates on a semi real-time basis.

3. An electronic bazaar as in claim 1, further comprising computer-implemented means for aggregating individual orders of the same product into bulk units, said individual orders received from a plurality of electronic personal information agents, and for facilitating a bulk unit transaction between a bulk unit buyer or seller and the individual orders from said electronic personal information agents.

4. A computer-implemented system for securely asserting and enforcing the informational privacy and informational self-determination rights and responsibilities of an entity by providing secure and private storage as well as secure and private information exchange via trusted processes and cryptographic mechanisms, the computer-implemented system comprising:

means to securely store an entity's personal information in the form of a self-determining digital persona such that it is accessible only to the entity or trusted processes, said personal information being stored in an encrypted manner;  
trusted process means for securely and privately exchanging some or all the personal information between entities in a manner so as to prevent access by other processes to the personal information being exchanged as well as to the personal information not being exchanged;  
wherein said trusted process means bases an exchange of personal information on personal privilege rules of each entity so as to permit an incremental exchange of personal information stored in the entity's self-determining digital persona as each individual or set of personal privilege rules are incrementally satisfied;  
wherein said trusted process means further assures that entities involved in a potential or partially performed exchange are unaware of each other's identities unless information concerning their identities is intentionally exchanged, and are unaware of why specific personal privilege rules have failed, if any; and  
means to assure that any exchanged personal data is delivered to the receiving entity privately in such a manner that the receiving entity can process only that data which the personal privilege rules allow it.

5. The computer-implemented system of claim 4, wherein the entity's personal information is encrypted by a key that is securely stored, said computer-implemented system having exclusive access to said key and, therefore, exclusive capability to decrypt said personal information for a trusted and secure process.
6. The computer-implemented system of claim 4, wherein the incremental exchange of personal information occurs within a single continuous exchange session between the entities.
7. The computer-implemented system of claim 4, wherein the incremental exchange of personal information occurs in multiple exchange sessions separated by arbitrary amounts of time, each of said exchange sessions independently initiated by one of the exchanging entities, and each exchange session involving the satisfaction of a different set of one or more personal privilege rules.

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### **System and method for notification and access of patient care information**

A multiple user computerized clinical care system and method of using it, include the use of a group of terminals communicating with a central computer system for sending and receiving patient information for storage and retrieval purposes. The system and method includes managing patient informat...

**Inventors:** Jean F. Lancelot, Jon J. Burford, David S. Gardner

**Assignees:** Clinicomp International, Inc.

**Patent number:** 5946659

**Filing date:** Jul 30, 1997

**Issue date:** Aug 31, 1999

What is claimed is:

1. A multiple user computerized clinical care system, comprising:

- computer means for storing patient care information;
- a group of terminal means coupled in communication with said computer means for sending patient information to said computer means for storage therein and for retrieving stored patient information therefrom so that health care providers can utilize the terminals to retrieve current patient information;
- each one of said terminal means having means for generating patient information variance requests to cause selected portions of the patient information to be updated;
- managing means for receiving temporarily and managing said patient information variance requests received from said terminals to facilitate modifying current patient information to update said patient care information;
- said managing means including means for storing the received variance requests in the order in which the variance requests are received from said terminal means for a given patient, without denying at any time any terminal means access to the patient care information;

said managing means for selecting and sending simultaneously one of the stored patient information variance requests to all terminal means currently accessing the patient care information for said given patient in a concurrent manner to facilitate updating said patient care information for said given patient;  
means for enabling the terminal means to receive the selected one of said variance requests substantially concurrently for said given patient, without causing any user to wait for the current variance information;  
each one of said terminal means having means responsive to the received one of said variance requests for causing concurrently the accessed patient information for said given patient to be updated in accordance with the received one of said variance requests; and  
wherein no terminal means is locked for use at any time and no terminal means is ever denied access at any time to the patient care information, whereby all terminal means are updated substantially simultaneously.

2. A system according to claim 1, further including means for generation a variance indicia to indicate the occurrence of a stored variance information for a given patient;

means for sending said variance indicia to terminals monitoring patient information for the given patient to alert the users to the existence of variance.

3. A system according to claim 2, further including means for retrieving variance notes describing the variance.

4. A system according to claim 3, wherein said means for managing includes means for generating a list of variances and means for sending said list to said terminals upon request by the users.

5. A system according to claim 3, further including network means for interconnecting said computer means and said group of terminal means in communication with one another.

6. A system according to claim 1, wherein said **patient information is encapsulated within an object.**